

# Sree Narayana College Chengannur

Post Graduate Department of Physics & IQAC

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

## CERTIFICATE COURSE

# BASIC ELECTRONICS

**Co-ordinator:** Dr.K Sreelatha

**Members:** Mr.Praveen  
Dr. Sasikala K  
Ms.Shehina Shaji  
Ms.Renju Ravi  
Ms.Arya Raveendran  
Ms.Saranya K



**JOIN NOW**

**9447897925**



**15 DEC 2019  
TO  
31 JAN 2020**



**TIME  
3.00 TO 4.00PM**



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

**Dr.Latha M S**  
Principal-in-Charge

Dr. K Sreelatha  
Head of the Department  
SN College Chengannur

Chengannur  
21/10/2019

The Principal  
SN College Chengannur

Subject :- Conduct a certificate course for 2019-2020- request permission reg:

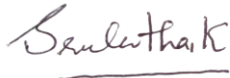
Madam,

The Department of Physics plans to conduct a certificate course on "Basic Electronics" for the UG and PG students of the department. The duration of the course is 30 hours. We plan to conduct the course from 15/12/2019 to 31/01/2020.

Kindly grant permission to organize the same.

Thanking you,

Yours faithfully,



Dr. K Sreelatha



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## **CERTIFICATE COURSE 2019-2020**

Department Conducts a Certificate course on “**BASIC ELECTRONICS**”. The Duration of the Course is 30 hours. This course will provide the students an idea of the basic idea of electronic components and their uses and applications.

### **CERTIFICATE COURSE IN BASIC ELECTRONICS**

**PY19BE**

#### **SYLLABUS**

##### **Module 1: Electronics & Electrical Components Identification**

Vacuum tubes – Resistors- Capacitors- Batteries- switches-Diodes – Transistors – Integrated chips – Bread board – voltage supplies- millimeters

##### **Module 2: Uses of Electronics components for basics Electronic devices**

Use of resistors and capacitors in a circuit- charging and discharging of capacitors- Uses of transistors transistor connections- Uses of diodes- filter circuits- zener diodes- voltage regulators

##### **Module 3: Cathode Ray Oscilloscope operations**

Identification of CRO knobs- Testing of CRO and PROBES- Measurements using CRO- Familiarization of Function Generators- Operation of Function Generator

##### **Module 4: Skill Development**

Soldering of electronic components –PN junction Diode (Ge & Si) characteristics - full wave & bridge rectifiers – Zener diode characteristics.

### **Books for Reference**

- 1. Basic Electrical Engineering – V.K Mehta & Rohit Mehta (2006) – S.Chand publishers**
- 2. Electrical Technology – Volume I – B.L.Tereja S.Chand publishers**
- 3. Malvino Electronic Principles (1998) sixth edition – Albert Paul Malvino – Tata Mcgraw Hills publishers**



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**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 5<sup>th</sup> December, 2019 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
3. Dr. Sasikala K
4. Ms.Shehina Shaji
5. Ms.Renju Ravi
6. Ms.Arya Raveendran
7. Ms.Saranya K

The following points were discussed in the meeting.

- The BoS has decided to initiate the following certificate course in the academic year 2019-20.

**BASIC ELECTRONICS**

- 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 electronic components and their uses and applications.
- It was decided to conduct the above course having 30 hours duration.
- The committee has framed the time- table apart from the academic hours.
- Classes will start on 15/12/2019 and end on 31/01/2020.
- 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.



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**CERTIFICATE COURSE  
IN  
BASIC ELECTRONICS**

**Details of Students Enrolled for Certificate Course: 2019-2020**

<b>Sl. No.</b>	<b>Candidate Code</b>	<b>Name of Student</b>	<b>Class</b>
1.	23017128002	Akhil Krishnan	III B.Sc. Physics
2.	23017128003	Akshay	III B.Sc. Physics
3.	23017128004	Ganga Krishnan M	III B.Sc. Physics
4.	23017128005	Subin Mathew	III B.Sc. Physics
5.	23017128006	Vishnuprasad S	III B.Sc. Physics
6.	23017128010	Anju A	III B.Sc. Physics
7.	23017128011	Arun K V	III B.Sc. Physics
8.	23017128012	Gopika Gopalan	III B.Sc. Physics
9.	23017128013	Gulmesh Chand	III B.Sc. Physics
10.	23017128014	Hima Krishna P	III B.Sc. Physics
11.	23017128015	Krishna S	III B.Sc. Physics
12.	23017128017	Rakhi R Kurup	III B.Sc. Physics
13.	23017128018	Shalu T S	III B.Sc. Physics
14.	23017128019	Sreelekha B	III B.Sc. Physics
15.	23017128021	Vidya L	III B.Sc. Physics
16.	23017128022	Yadun Y	III B.Sc. Physics
17.	63019128001	Akhila Anil	I M.Sc. Physics
18.	63019128002	Ameena Majeed	I M.Sc. Physics
19.	63019128003	Angiras N Namboothiri	I M.Sc. Physics

20.	63019128004	Anu Prakash Achari	I M.Sc. Physics
21.	63019128005	Archana Aravind	I M.Sc. Physics
22.	63019128006	Harkishal S	I M.Sc. Physics
23.	63019128007	Lekshmi U	I M.Sc. Physics
24.	63019128008	Manju S	I M.Sc. Physics
25.	63019128009	Mridu R Murali	I M.Sc. Physics
26.	63019128010	Nandu Mohan	I M.Sc. Physics
27.	63019128011	Neethu S	I M.Sc. Physics
28.	63019128012	Priyanka P.	I M.Sc. Physics
29.	63019128013	Sarangi Krishna K	I M.Sc. Physics
30.	63019128014	Shekha . G	I M.Sc. Physics
31.	63019128015	Sivakumar S	I M.Sc. Physics
32.	63019128016	Sreelekshmi A	I M.Sc. Physics
33.	63019128017	Subin Balachandran	I M.Sc. Physics
34.	63019128018	Suraj S Nair	I M.Sc. Physics
35.	63019128019	Vijesh Vijayan	I M.Sc. Physics
36.	63018128001	Akshay A	II M.Sc. Physics
37.	63018128002	Amar Raj	II M.Sc. Physics
38.	63018128003	Anand Mohan A	II M.Sc. Physics
39.	63018128004	Anju Krishna	II M.Sc. Physics
40.	63018128005	Aswathy Mani Babu	II M.Sc. Physics
41.	63018128006	Athira P Nair	II M.Sc. Physics
42.	63018128007	Athira T Pillai	II M.Sc. Physics
43.	63018128008	Chinchu R Babu	II M.Sc. Physics



44.	63018128009	Divya R	II M.Sc. Physics
45.	63018128010	Jesny Thankachan	II M.Sc. Physics
46.	63018128011	Kavya Sasidharan K K	II M.Sc. Physics
47.	63018128012	Lekshmi Prasad	II M.Sc. Physics
48.	63018128013	Nithina S	II M.Sc. Physics
49.	63018128014	Parvathy S	II M.Sc. Physics
50.	63018128015	Rakhi Reghu	II M.Sc. Physics
51.	63018128016	Remya Krishnan A	II M.Sc. Physics
52.	63018128017	Sreya P K	II M.Sc. Physics
53.	63018128018	Vineeth Shaji	II M.Sc. Physics



  
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**SREE NARAYANA COLLEGE, CHENGANNUR**

**DEPARTMENT OF PHYSICS**

**CERTIFICATE COURSE IN BASIC ELECTRONICS**

**CERTIFICATE COURSE REPORT 2019-2020**

**Date: 15/12/2019 to 31/01/2020**

**Time: 3.00 pm to 4.00 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. The program was inaugurated by Dr. M.S. Latha, the Principal-in-charge, and chaired by Dr. K. Sreelatha, Head, Department of Physics, Sree Narayana College, Chengannur. Dr. Sasikala, Course coordinator delivered the welcome address.

The sessions of course were handled by four faculty members of the department namely Dr. K. Sreelatha, Dr. Sasikala, Mr. Praveen K.H. and Mrs. Renju Ravi.

The session started with the basics introduction of electronics. Certificate course that 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 Electronics & Electrical Components Identification, their uses and soldering them. Second year UG, third year UG, first year and second year PG students in our department successfully completed the course. The minimum attendance for the successful completion of the course is decided to be 75%. On the completion of the course, certificates were distributed to the students by Dr. M.S. Latha, the Principal-in-charge and Dr. K. Sreelatha, Head of the Department of Physics, Sree Narayana College, Chengannur.

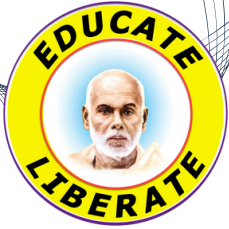
Duration: 30 hrs theory

The students have completed 30 sessions including theory and practical during the period **15/12/2019 to 31/01/2020.**



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# Sree Narayana College Chengannur

## PG Department of Physics & IQAC

### Certificate of Participation

This certificate is proudly awarded to

*Rakhi R Kurup*

*This is to certify that Rakhi R Kurup of III B.Sc. Physics has successfully completed the certificate course on 'Basic Electronics' conducted by PG Department of Physics, Sree Narayana College, Chengannur during the academic year 2019-20. The member achieved the fundamentals of electronics and general skills in using basic electronic components*

*Sreelatha*

DR.K SREELATHA

Signature of HOD  
Department of Physics



*Latha*

DR.M S LATHA

Signature of  
Principal  
PRINCIPAL  
SREE NARAYANA COLLEGE  
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