

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

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**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:

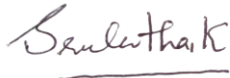
Madam,

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

Vaccum 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 5th 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

Sl. No.	Candidate Code	Name of Student	Class	Signature
1.	23017128002	Akhil Krishnan	III B.Sc. Physics	<i>Akhil</i>
2.	23017128003	Akshay	III B.Sc. Physics	<i>Akshay</i>
3.	23017128004	Ganga Krishnan M	III B.Sc. Physics	<i>Ganga</i>
4.	23017128005	Subin Mathew	III B.Sc. Physics	<i>Subin Mathew</i>
5.	23017128006	Vishnuprasad S	III B.Sc. Physics	<i>Vishnu</i>
6.	23017128010	Anju A	III B.Sc. Physics	<i>Anju</i>
7.	23017128011	Arun K V	III B.Sc. Physics	<i>Arun</i>
8.	23017128012	Gopika Gopalan	III B.Sc. Physics	<i>Gopika</i>
9.	23017128013	Gulmesh Chand	III B.Sc. Physics	<i>Gulmesh</i>
10.	23017128014	Hima Krishna P	III B.Sc. Physics	<i>Hima</i>
11.	23017128015	Krishna S	III B.Sc. Physics	<i>Krishna</i>
12.	23017128017	Rakhi R Kurup	III B.Sc. Physics	<i>Rakhi</i>
13.	23017128018	Shalu T S	III B.Sc. Physics	<i>Shalu</i>
14.	23017128019	Sreelekha B	III B.Sc. Physics	<i>Sreelekha</i>
15.	23017128021	Vidya L	III B.Sc. Physics	<i>Vidya</i>
16.	23017128022	Yadun Y	III B.Sc. Physics	<i>Yadun</i>
17.	63019128001	Akhila Anil	I M.Sc. Physics	<i>Akhila</i>
18.	63019128002	Ameena Majeed	I M.Sc. Physics	<i>Ameena</i>
19.	63019128003	Angiras N Namboothiri	I M.Sc. Physics	<i>Angiras</i>
20.	63019128004	Anu Prakash Achari	I M.Sc. Physics	<i>Anu</i>



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



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



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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.

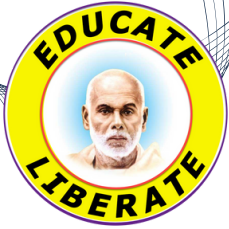
Duration: 30 hrs theory

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
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