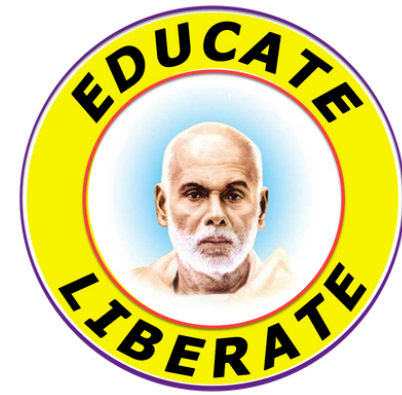


SREE NARAYANA COLLEGE CHENGANNUR

POST GRADUATE DEPARTMENT OF PHYSICS & IQAC



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

CERTIFICATE COURSE

FUNDAMENTALS OF MICROPROCESSOR

DATE: 15 DEC 2018-31 JAN 2019

TIME: 3.00 TO 4.00 PM

Co-ordinator: Dr.K Sreelatha

Members: Ms.Amrutha Sasidharan
MS.Arya Surendhran
Ms.Sasikala V
Ms.Renju Ravi
Ms.Arya Raveendran
Ms.Nidhi S Vijay



For more information
contact **9447897925**



DR.P R REJIKUMAR
HEAD OF THE DEPARTMENT

DR.SHINY SREEDHAR
PRINCIPAL

Dr. Rejikumar P R
Head of the Department
SN College Chengannur

Chengannur
20/10/2018

The Principal
SN College Chengannur

Subject :- Conduct a certificate course for 2018-2019- request permission reg:

Madam,

The Department of Physics plans to conduct a certificate course on "Fundamentals of Microprocessor" for the UG and PG students of the department. The duration of the course is 30 hours. We plan to conduct the course from 15/12/2018 to 31/01/2019.

Kindly grant permission to organize the same.

Thanking you,

Yours faithfully,



Dr. Rejikumar P R



Permitted



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CERTIFICATE COURSE 2018-2019

The Department of Physics conducts a Certificate course on “**FUNDAMENTALS OF MICROPROCESSOR**”. The Duration of the Course is 30 hours. This course will provide the students a basic idea of microprocessors and how it works.

CERTIFICATE COURSE IN FUNDAMENTALS OF MICROPROCESSOR

PY18FM

SYLLABUS

Module 1 (5 hours)

Introduction: Introduction to Microprocessors, microcomputer and single chip microcomputer, Components of Microprocessor: Registers, ALU and control & timing, CPU, I/O devices, clock, memory, bussed architecture, tri-state logic, address bus, data bus and control bus.

Module 2 (15 hours)

Architecture of 8085 Microprocessor: Microprocessor Architecture, Pin Functions, De-multiplexing of Buses Memory and I/O operation, Generation of Control Signals, Instruction Cycle, Machine Cycles, T-States-Instruction Set-Assembly Language Programming Basics, Classification of Instructions, 8085 Instruction Set, Instruction and data Formats, Addressing Modes-Assembly Language Programming

Module 3 PRACTICAL (10 hours)

1. Hexadecimal additions of two numbers.
2. Add two sixteen bit numbers.
3. Separating of hexadecimal number into two digits
4. Multiplication by two, employing bit rotation
5. Display flashing “ABCDEF”
6. Add two sixteen bit numbers and store the 16bit result.
7. To generate Square Wave at PORT-A, PORT- B, PORT-C of 8255
8. Develop an assembly language program for subtraction of two numbers.

Books for Reference

1. Microprocessor Architecture, Programming and Applications with 8085: Gaonkar, Ramesh S. Penram International Publishing (India) Pvt. Ltd. New Delhi (5th Edition)
2. Fundamentals of Microprocessors and Microcontrollers: Ram, B. Dhanpat Rai Publications, New Delhi
3. Microprocessors and Interfacing Programming and Hardware: Hall, Douglass V. TMH publication, New Delhi, (latest Edition)
4. The 8051 Microcontroller Architecture, Programming and Applications: Ayala, Kenneth J. Penram International Publishing (I) Pvt. Ltd. New Delhi



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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, 2018 in the Department of Physics, Sree Narayana College, Chengannur at 10.00 a.m. The following members were present for the meeting.

1. Dr. R.K. Rejikumar
2. Dr. K. Sreelatha
3. Ms.Amrutha Sasidharan
4. MS.Arya Surendhran
5. Ms.Sasikala V
6. Ms.Renju Ravi
7. Ms.Arya Raveendran
8. Ms.Nidhi S Vijay

The following points were discussed in the meeting.

- The BoS has decided to initiate the following certificate course in the academic year 2018-19.

FUNDAMENTALS OF MICROPROCESSOR

- The syllabus for the above courses was designed by the committee considering the global needs and demand of the market.
- 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 15/12/2018 and end on 31/01/2019.
- 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 blue ink, consisting of a stylized, cursive script.

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CERTIFICATE COURSE
IN
FUNDAMENTALS OF MICROPROCESSOR

Details of Students Enrolled for Certificate Course: 2018-2019

Sl. No.	Candidate Code	Name of Student	Class
1	23016128003	ANJANA SURESH	III B.Sc. Physics
2	23016128004	ANUPRAKASH ACHARI	III B.Sc. Physics
3	23016128005	ARSHA S	III B.Sc. Physics
4	23016128006	GOKUL R	III B.Sc. Physics
5	23016128007	HARKISHAL S	III B.Sc. Physics
6	23016128008	MEKHA K BABU	III B.Sc. Physics
7	23016128009	MONU P MOHAN	III B.Sc. Physics
8	23016128010	RESHMA K REMESH	III B.Sc. Physics
9	23016128014	BISMI R	III B.Sc. Physics
10	23016128015	JITHIN BAIJU	III B.Sc. Physics
11	23016128016	LEKSHMI P	III B.Sc. Physics
12	23016128017	NIKHIL S	III B.Sc. Physics
13	23016128018	NITHIN K ANI	III B.Sc. Physics
14	23016128019	R RITESH	III B.Sc. Physics
15	63018128001	AKSHAY A	I M.Sc. Physics

16	63018128002	AMAR RAJ	I M.Sc. Physics
17	63018128003	ANAND MOHAN A	I M.Sc. Physics
18	63018128004	ANJU KRISHNA	I M.Sc. Physics
19	63018128005	ASWATHY MANI BABU	I M.Sc. Physics
20	63018128006	ATHIRA P NAIR	I M.Sc. Physics
21	63018128007	ATHIRA T PILLAI	I M.Sc. Physics
22	63018128008	CHINCHU R BABU	I M.Sc. Physics
23	63018128009	DIVYA R	I M.Sc. Physics
24	63018128010	JESNY THANKACHAN	I M.Sc. Physics
25	63018128011	KAVYA SASIDHARAN K K	I M.Sc. Physics
26	63018128012	LEKSHMI PRASAD	I M.Sc. Physics
27	63018128013	NITHINA S	I M.Sc. Physics
28	63018128014	PARVATHY S	I M.Sc. Physics
29	63018128015	RAKHI REGHU	I M.Sc. Physics
30	63018128016	REMYA KRISHNAN A	I M.Sc. Physics
31	63018128017	SREYA P K	I M.Sc. Physics
32	63018128018	VINEETH SHAJI	I M.Sc. Physics
33	63017128001	ADITHYA S R	II M.Sc. Physics
34	63017128002	GOUTHAM KRISHNA A	II M.Sc. Physics
35	63017128003	HIMA P S	II M.Sc. Physics
36	63017128004	KAVYA SURENDRAN	II M.Sc. Physics

37	63017128005	KEERTHY V R	II M.Sc. Physics
38	63017128006	NAVITHA KRISHNA K	II M.Sc. Physics
39	63017128007	NEESHMA P P	II M.Sc. Physics
40	63017128008	NITHYA P S	II M.Sc. Physics
41	63017128009	RENJU R NAIR	II M.Sc. Physics
42	63017128010	SHILPA K	II M.Sc. Physics
43	63017128011	VINAYA M K	II M.Sc. Physics
44	63017128012	VISHNU PRASAD P R	II M.Sc. Physics



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DEPARTMENT OF PHYSICS

REPORT ON CERTIFICATE COURSE IN FUNDAMENTALS OF MICROPROCESSOR

ACADEMIC YEAR 2018-2019

Date: 15/12/2018 to 31/01/2019

Time: 3.00 pm to 4.00 pm

Venue: Physics Lab

As per the decision of the Department 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. Shiny Sreedhar, Principal, and chaired by Dr. R.K. Rejikumar, Head, Department of Physics, Sree Narayana College, Chengannur. Dr. K. Sreelatha, Course co-ordinator delivered the welcome address.

The sessions of course were handled by faculty members of the department namely Dr. R K. Rejikumar, Dr. K Sreelatha , Ms Sasikala V, Ms Amrutha Sasidharan.

Fundamentals of Microprocessor course starts with a discussion on a simple microprocessor, 8085. 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 the fundamentals of microprocessor and its practical section in Physics UG & PG laboratories and to develop skills on how the microprocessor works, their uses and programming. 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 course, certificates were distributed to the students by Dr. Shiny Sreedharan Principal and Dr. R K. Rejikumar Head of the Department of Physics, Sree Narayana College, Chengannur.

PHOTOS
PRACTICAL SECTION



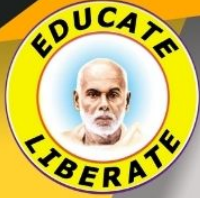
Duration: 10 hrs Practical and 20 hrs theory

The students have completed 30 sessions including theory and practical during the period **15/12/2018 to 31/01/2019.**

Total Students Successfully Completed: 44



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SREE NARAYANA COLLEGE CHENGANNUR

PG DEPARTMENT OF PHYSICS & IQAC

CERTIFICATE OF PARTICIPATION

THIS CERTIFICATE IS PROUDLY PRESENTED TO

ANUPRAKASH ACHARI

THIS IS TO CERTIFY THAT ANUPRAKASH ACHARI OF III B.SC. PHYSICS HAS SUCCESSFULLY COMPLETED THE CERTIFICATE COURSE ON 'FUNDAMENTALS OF MICROPROCESSOR' CONDUCTED BY PG DEPARTMENT OF PHYSICS, SREE NARAYANA COLLEGE, CHENGANNUR DURING THE ACADEMIC YEAR 2018-19. THE MEMBER ACHIEVED THE GENERAL SKILLS IN USING MICROPROCESSOR AND DEVELOPING PROGRAMS.

Dr.P R Rejikumar
Signature of HOD
Department of Physics



Dr.Shiny Sreedhar
Signature of
Principal

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