

SREE NARAYANA COLLEGE KOLLAM



CERTIFICATE COURSE ON

PYTHON PROGRAMMING

CONDUCTED BY DEPARTMENT OF PHYSICS

Python is a ubiquitous programming language that has a wide variety of applications. From machine learning to web development, the Python language finds uses in industries and companies most of you are already familiar with. This course will take you through the ins and outs of the Python programming language. It covers what Python is, where it is used and why it is so popular, how to install Python, as well as some fundamentals of the language.

Starts on 10/09/2018
Ends on 10/01/2019
Available Seats: 45
Admission starts on 15/08/2018.

For more Information, contact Dedhila Devadathan (coordinator)

Ph. No: 9446454083

PYTHON PROGRAMMING

SYLLABUS (Theory: 32 Hrs and Practicals: 8 Hrs)

Chapter I: Programming Basics and Strings (8 hours)

Starting code Editor, Using code Editor's Python Shell, Beginning to Use Python — Strings, Putting Two Strings Together, Displaying Strings with Print, Numbers and Operators, Variables — Names for Values, Using More Built-in Types, Making Decisions, if, Repetition, Using a while Loop, Handling Errors.

Chapter III: arrays and functions (7 hours)

Python arrays, Defining a Function, Experimenting with Comments, Invoking a Function with Parameters, modules, Creating a Module, Importing a Module.

Chapter III: Python Classes and objects (8 hours)

Thinking about programming, Defining a Class: Creating an Object from your Class, Writing an Internal Method, Writing Interface Methods, Using More Methods.

Chapter IV: Advanced Python(9 hours)

Writing a GUI with Python, GUI Programming Toolkits for Python, PyGTK Introduction, Using Python for XML, applications of python.

Practical Exercises(08 Hours)

1. Write a Python code to find the largest of two numbers.
2. Write a python code to find the factorial of a number.
3. Write a python code to check whether a number is even or odd.
4. Write a python code to check whether a number is prime or not.
5. Python program to read and display an array.
6. Python program to find the largest number in an array.
7. Python program to check whether an element is present in a list.
8. Python program to find the length of a string
9. Python program to implement call by reference
10. Python program to create a class and object.

Books for study :

1. Beginning Python , Peter Norton, Alex Samuel, David Aitel, Eric Foster-Johnson, Leonard Richardson, Jason Diamond, Aleatha Parker, Michael Roberts. Wiley Publishing, Inc.
2. Python: The Complete Reference, Martin C Brown, McGraw Hill Education; Forth edition.
3. Think Python, Allen B. Downey, O'Reilly Media, Inc., Second Edition.

Department of
Sree Narayana College
Kollam-691 001

Thiruvalluvar
Principal
Sree Narayana College
Kollam



SREE NARAYANA COLLEGE, KOLLAM

DEPARTMENT OF PHYSICS

Certificate Courses

Members of the Board Studies

The following faculties are selected as Members of Board of studies for Certificate courses (Microprocessor and Microcontrollers, Python Programming) Conducted by Department of Physics, Sree Narayana College, Kollam in the academic year 2018-19.

	Name	Designation
1	Dr. Anitha Sankar	Principal, Associate Professor, Department of English, Sree Narayana College, Kollam.
2	Dr. G. Sajeevkumar	Associate Professor, Department of Physics, Sree Narayana College, Kollam
3	Sri. Srijith S	Assistant Professor, Department of Physics, Sree Narayana College, Kollam
4	Smt. Asitha L.R	Assistant Professor, Department of Physics, Sree Narayana College, Kollam
5	Sri. Baiju V	Assistant Professor, Department of Physics, Sree Narayana College, Kollam
6	Dr. Dedhila Devadathan	Assistant Professor, Department of Physics, Sree Narayana College, Kollam
7	Dr. Sankar S	Assistant Professor, Department of Physics, Sree Narayana College, Kollam
8	Dr. Roxy M S	Assistant Professor, Department of Physics, Sree Narayana College, Kollam
9	Dr. Vidya S	Assistant Professor, Department of Physics, Sree Narayana College, Kollam
10	Smt. Rehna R	Assistant Professor, Department of Physics, Sree Narayana College, Kollam



Department of Physics
Sree Narayana College
Kollam-691 001

SREE NARAYANA COLLEGE, KOLLAM**DEPARTMENT OF PHYSICS****Minutes of the Meeting**

The minutes of the meeting of the BoS of Certificate courses was held on 12th August, 2018 in the Department of Physics, Sree Narayana College, Kollam at 10.00 a.m. The following members were present for the meeting.

- 1 Dr. Anitha Sankar
- 2 Dr. Sankar S
- 3 Smt. Asitha L R
- 4 Sri. Srijith S
- 5 Sri. Baiju V
- 6 Dr. Roxy M S
- 7 Dr. Dedhila Devadathan
- 8 Dr. Vidya S
- 9 Smt. Rehna R
- 10 Dr. Sajeev Kumar G
- 11 Sri. Vipin Kumar C

The following points were discussed in the meeting.

- The BoS has decided to initiate the following courses in the academic year 2018-19.
 1. **MICROPROCESSOR AND MICROCONTROLLER (MM)**
 2. **PYTHON PROGRAMMING (PY)**
- The syllabus for the above courses was designed by the committee by considering the global needs and demand of the market.
- It was decided to conduct the above courses for more than 30 hours.
- The committee has framed the time- table apart from the academic hours.
- The Python Programming Classes will start on September 10 2018 and ends on Jan 10 2019.

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- While running the course there are some expenditures such remuneration for the trainers, stationery and miscellaneous. Therefore, the minimum affordable fees should be charged.
- The committee has suggested to appoint the trainers for the above courses.
- The minimum attendance for the successful completion of the course is decided to be 75%.
- The minimum marks required for the qualification is decided to be 50 marks for Theory and 25 marks for Practicals.
- 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 demand of the stakeholders and approval of I.Q.A.C.

Sri. Baiju V proposed vote of thanks and the meeting was ended.



Unit of Studies
Sree Narayana College
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SREE NARAYANA COLLEGE, KOLLAM
DEPARTMENT OF PHYSICS

The following faculties are selected as trainers for Certificate courses (Microprocessor and Microcontrollers, Python Programming) Conducted by Department of Physics, Sree Narayana College, Kollam in the academic year 2018-19.

List of Teachers - Microprocessor and Microcontrollers				
	Name	College	Mobile no:	mail id
1	Dr.Sankar S	SNCK	9496260308	sukusankar@yahoo.co.in
2	Sri. Srijith S	SNCK	9633500425	srijithkeanu@gmail.com
3	Smt.Asitha L.R	SNCK	9995213881	asitha85@gmail.com
4	Sri. Baiju V	SNCK	8281856366	baijuvkollam@gmail.com

List of Teachers - Python Programming				
	Name	College	Mobile no:	mail id
1	Dr.Dedhila Devadathan	SNCK	9446454083	dedhila@gmail.com
2	Dr Roxy M S	SNCK	9495243029	roxyms@gmail.com
3	Dr Vidya S	SNCK	9745464525	vidyaasnair@gmail.com
4	Smt Rehna R	SNCK	8281328303	rehnaraju@gmail.com



Sree Narayana College
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SREE NARAYANA COLLEGE, KOLLAM

DEPARTMENT OF PHYSICS

CERTIFICATE COURSE TIME TABLE

Name: PYTHON PROGRAMMING (PY)

Duration: 30 Hrs

Start Date: JAN 10 2019

End Date: MAY 08 2019

DAY /03:30 PM TO 04:30 PM	HANDLED BY
MONDAY	VIPIN KUMAR C
TUESDAY	Dr. VIDYA S
WEDNESDAY	Dr. SANKAR S
THURSDAY	PRACTICAL HOURS (Dr. ROXY M S/ BAIJU V)
FRIDAY	SAFFIR T K / Dr. P. K. MANOJ



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SREE NARAYANA COLLEGE ,KOLLAM
DEPARTMENT OF PHYSICS
CERTIFICATE COURSE

Name : PYTHON PROGRAMMING (PY)

Duration : 30 Hrs

Start Date: SEPT 10 2018

End Date:

JAN 10 2019

LIST OF STUDENTS

SI No	Name of the Student	Gender	Email Id	Class	Mobile No	Year of Admission
1	Aadilisha S	M	aadilinsight@gmail.com	B.Sc. PCA	8547497560	2017
2	Abhijith c g	M	abhijithcgktr2@gmail.com	B.Sc. PCA	9072054059	2017
3	AKASH THULASI	M	vysakhg9@gmail.com	B.Sc. PCA	9746717600	2017
4	Arundhathy J	F	arundhathyj144@gmail.com	B.Sc. PCA	9745743623	2017
5	Binil B	M	binil.b.re@gmail.com	B.Sc. PCA	7034083071	2017
6	Nandhu m	M	nandhumpillai0@gmail.com	B.Sc. PCA	8921168477	2017
7	Prajitha. P	F	prajithaprasannakumar@gmail.com	B.Sc. PCA	9645646965	2017
8	Saravan Js	M	SARAVANJS2015@GMAIL.COM	B.Sc. PCA	8547875657	2017
9	Akhil A R	M	akhilar3733@gmail.com	B.Sc. PCA	9207195104	2017
10	Anandhu. S	M	anandhusudheer58@gmail.com	B.Sc. PCA	9446220671	2017
11	Athira Mohan	F	athiramohan918@gmail.com	B.Sc. PCA	8078763835	2017
12	JAGATH KRISHNAN J	M	jagathjkjk@gmail.com	B.Sc. PCA	8137876323	2017
13	Nandana Anil	F	nandanaani8@gmail.com	B.Sc. PCA	8078945084	2017
14	NANDHANA KARUNAKARAN	F	nandanakarunakaran99@gmail.com	B.Sc. PCA	9526801348	2017
15	RAGIMA L B	F	ragimalb98@gmail.com	B.Sc. PCA	7902406393	2017
16	ROY S G	M	sunilkumar05513@gmail.com	B.Sc. PCA	9995299416	2017
17	Sangeetha sajeev	F	sangeethasajeev432@gmail.com	B.Sc. PCA	9495651516	2017
18	Shilpa.S	F	Shilpaseetha996@gmail.com	B.Sc. PCA	8592839352	2017
19	Sreeja S	F	sreejas478@gmail.com	B.Sc. PCA	8848624152	2017
20	M S Manasi	F	jagathprabha1999@gmail.com	B.Sc. PCA	7902585668	2017

SREE NARAYANA COLLEGE, KOLLAM
DEPARTMENT OF PHYSICS
CERTIFICATE COURSE

Name : PYTHON PROGRAMMING (PY)

Duration : 30 Hrs

SEP 10 2018

Start Date:

JAN 10 2019

End Date :

Sl. No.	Enrollment No.	Name of the student	Name of the Department	Completed (Yes or No)	MARKS		
					THEORY	PRACTICALS	TOTAL
					MAX: 50	MAX: 25	MAX: 75
1	PY01	Aadilsha S	Physics	Yes	35	23	58
2	PY02	Abhijith c g	Physics	Yes	37	23	60
3	PY03	AKASH THULASI	Physics	Yes	37	23	60
4	PY04	Arundhathy J	Physics	Yes	34	24	58
5	PY05	Binil B	Physics	Yes	40	23	63
6	PY06	Nandhu m	Physics	Yes	43	23	66
7	PY07	Prajitha. P	Physics	Yes	34	23	57
8	PY08	Saravan Js	Physics	Yes	34	23	57
9	PY09	Akhil A R	Physics	Yes	45	25	70
10	PY10	Anandhu. S	Physics	Yes	43	23	66
11	PY11	Athira Mohan	Physics	Yes	40	23	63
12	PY12	JAGATH KRISHNAN J	Physics	Yes	35	23	58
13	PY13	Nandana Anil	Physics	Yes	45	23	68
14	PY14	NANDHANA	Physics	Yes	45	23	68
15	PY15	KARUNAKARAN	Physics	Yes	32	23	55
16	PY16	RAGIMA L B	Physics	Yes	45	23	68
17	PY17	ROY S G	Physics	Yes	32	23	55
18	PY18	Sangeetha sajeev	Physics	Yes	36	23	59
19	PY19	Shilpa.S	Physics	Yes	34	23	57
20	PY20	Sreeja S	Physics	Yes	29	23	52
21	PY21	M S Manasi	Physics	Yes	40	23	63
22	PY22	Midhun ms	Physics	Yes	30	23	53
		Prabin P	Physics	Yes			

Signature: _____
 Date: _____

Anil Sarath
 Anand Mohan
 Anandhu B N
 Ananthu A
 Ananthu Gopan
 Anusree S Kumar
 Arun S
 Aswathy A R
 Bhagya R
 Drisya J S
 Easwar Vivek Anand
 Gahna S Raj
 Govind C S
 K A Azhad
 Midhun Vimal
 Pooja S
 S Amjiyad Muhammed
 Sajin Bal
 Saranya P Siva
 Surya Ravi Kumar
 Abhijith S G

Roll No	Name	Subject	Marks	Grade	Pass/Fail	Roll No	Name	Subject	Marks	Grade	Pass/Fail
23	Akhil Sarath	Physics	34	23	57	57					
24	Ananda Mohan	Physics	45	22	67	67					
25	Anandhu B N	Physics	32	23	55	55					
26	Ananthu A	Physics	33	22	55	55					
27	Ananthu Gopan	Physics	34	23	57	57					
28	Anusree S Kumar	Physics	43	23	66	66					
29	Arun S	Physics	33	24	57	57					
30	Aswathy A R	Physics	43	23	66	66					
31	Bhagya R	Physics	34	23	57	57					
32	Drisya J S	Physics	37	23	60	60					
33	Easwar Vivek Anand	Physics	34	23	57	57					
34	Gahna S Raj	Physics	45	23	68	68					
35	Govind C S	Physics	45	23	68	68					
36	K A Azhad	Physics	43	23	66	66					
37	Midhun Vimal	Physics	44	23	67	67					
38	Pooja S	Physics	35	23	58	58					
39	S Amjiyad Muhammed	Physics	45	23	68	68					
40	Sajin Bal	Physics	42	24	66	66					
41	Saranya P Siva	Physics	43	23	66	66					
42	Surya Ravi Kumar	Physics	43	23	66	66					
43	Abhijith S G	Physics	45	25	70	70					



SREE NARAYANA COLLEGE ,KOLLAM

DEPARTMENT OF PHYSICS

CERTIFICATE COURSE

Name : **PYTHON PROGRAMMING (PY)**

Duration : 30 Hrs

Start Date: **SEP 10 2018**

End Date:

JAN 10 2019

ATTENDANCE STATEMENT

SI No	Name of the Student	Register No:	% of Attendance
1	Aadilsha S	PY01	88
2	Abhijith c g	PY02	89
3	AKASH THULASI	PY03	85
4	Arundhathy J	PY04	87
5	Binil B	PY05	86
6	Nandhu m	PY06	91
7	Prajitha. P	PY07	89
8	Saravan Js	PY08	90
9	Akhil A R	PY09	92
10	Anandhu. S	PY10	90
11	Athira Mohan	PY11	94
12	JAGATH KRISHNAN J	PY12	96
13	Nandana Anil	PY13	89
14	NANDHANA KARUNAKARAN	PY14	84
15	RAGIMA L B	PY15	80
16	ROY S G	PY16	83
17	Sangeetha sajeev	PY17	84
18	Shilpa.S	PY18	95
19	Sreeja S	PY19	82
20	M S Manasi	PY20	86
21	Midhun ms	PY21	87
22	Prabin P	PY22	80
23	Akhil Sarath	PY23	90
24	Ananda Mohan	PY24	92
25	Anandhu B N	PY25	94
26	Ananthu A	PY26	85
27	Ananthu Gopan	PY27	86
28	Anusree S Kumar	PY28	89
29	Arun S	PY29	90
30	Aswathy A R	PY30	91
31	Bhagya R	PY31	95
32	Drisy J S	PY32	91
33	Easwar Vivek Anand	PY33	90
34	Gahna S Raj	PY34	88
35	Govind.C S	PY35	89
36	K A Azhad	PY36	90
37	Midhun Vimal	PY37	91
38	Pooja S	PY38	86
39	S Amjiyad Muhammed	PY39	85

Aadilsha
Abhijith
Akash
Arundhathy
Binil
Nandhu
Prajitha
Saravan J-s
Akhil A R
Anandhu
Athira
Jagath Krishnan
Nandana
Nandhana
Ragima
Roy S G
Sangeetha Sajeew
Shilpa
Sreeja
M S Manasi
Midhun
Prabin
Akhil
Ananda
Anandhu
Ananthu
Ananthu
Anusree
Arun
Aswathy
Bhagya
Drisy
Easwar
Gahna
Govind
K A
Midhun
Pooja
S Amjiyad

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40	Sajin Bal	PY40	84	Abhinav
41	Saranya P Siva	PY41	88	Saranya
42	Surya Ravi Kumar	PY42	80	Surya Ravi Kumar
43	Abhijith S G	PY43	87	Abhijith S G



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DEPARTMENT OF PHYSICS

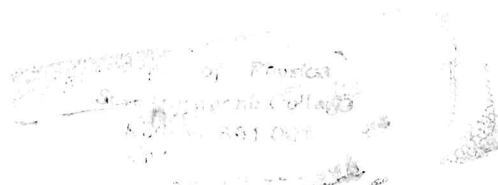
Minutes of the Meeting

The minutes of the meeting of the BoS of Certificate courses was held on Jan 01st, 2019 in the Department of Physics, Sree Narayana College, Kollam at 10.00 a.m.

- 1 Dr. Sunilkumar R
- 2 Dr. Sankar S
- 3 Smt. Asitha L R
- 4 Sri. Srijith S
- 5 Sri. Baiju V
- 6 Dr. Roxy M S
- 7 Dr. Dedhila Devadathan
- 8 Dr. Vidya S
- 9 Smt. Rehna R
- 10 Dr. G. Sajeevkumar
- 11 Sri. Vipin Kumar C

The following points were discussed in the meeting.

- The BoS has decided to initiate the following courses in the academic year 2018-19.
- There will be no change in the syllabus for the above courses.
- The committee has framed the time- table apart from the academic hours.
- The Committee decided to charge minimum fees for the courses.
- The Microprocessor and Microcontrollers Classes will start on Jan 10 2019 and ends on May 08 2019.
- The committee has suggested to consider the suggestions of the stake holders about the timing of the class.
- The committee has suggested to appoint the trainers for the above courses.



- The minimum attendance for the successful completion of the course is decided to be 75%.
- The minimum marks required for the qualification is decided to be 50 marks for Theory and 25 marks for Practicals.
- The submission of the assignment is compulsory for the successful completion of the course.
- The board has decided to initiate the certificate courses and approval of I.Q.A.C.

Sri. Baiju V proposed vote of thanks and the meeting was ended.



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Sree Narayana College, Kollam

Re-Accredited by NAAC with "A" Grade

Affiliated to the University of Kerala

Kollam - 691 001, Kerala, S. India

Tel : 0474 - 2741793, Fax : 0474-2766857

website www.snckollam.ac.in e-mail : snckollam@gmail.com

Dr. Sunilkumar R.

M.A, M.Phil., Ph.D

Principal

Mob No.: 9387500997

Email : sunilanena@gmail.com

Ref: PL/8033 / 2022

Date 05.01.2022

Certificate

Certified that **Ushakumari L, Associate Professor, Department of Physics, TKM College of Arts and Science, Kollam** is a member of the Board of studies for framing the syllabus and curriculum for the certificate courses offered by the Department of Physics of this college during the academic year 2018-19.

PRINCIPAL

REPORT ON CERTIFICATE COURSE IN MICROPROCESSOR AND MICROCONTROLLER AND PYTHON PROGRAMMING

DEPARTMENT OF PHYSICS

ACADEMIC YEAR 2018-19

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

1. MICROPROCESSOR AND MICROCONTROLLER (MM)

2. PYTHON PROGRAMMING (PY)

- The syllabus for the above courses was designed by the committee by considering the global needs and demand of the market.
- It was decided to conduct the above courses for more than 30 hours.
- The committee has framed the time- table apart from the academic hours.
- The Python Programming Classes will start on September 10 2018 and ends on Jan 10 2019.
- While running the course there are some expenditures such remuneration for the trainers, stationery and miscellaneous. Therefore, the minimum affordable fees should be charged.
- The committee has suggested to appoint the trainers for the above courses.
- The minimum attendance for the successful completion of the course is decided to be 75%.
- The minimum marks required for the qualification is decided to be 50 marks for Theory and 25 marks for Practicals.
- 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 demand of the stakeholders and approval of I.Q.A.C.

The Python Fundamentals for Beginners course offers a base knowledge of various Python concepts, starting from its introduction. The Course was intended to learn about variables in programming, decision-making statements, looping statements, algorithmic approaches, object-oriented programming concepts, and functions which are the essential elements that contribute to structuring any programming language.

After inheritance, students completed an assignment and an exam to test their knowledge to complete the course and earned a free certificate. After completing this free, self-paced, beginner's guide to Python, you can embark on your **Software and IT** career with a professional Post Graduate certificate and learn various concepts with millions of aspirants across the globe.

Duration: 08 hrs Practical and 32 hrs theory

The students have completed 30 sessions including theory and practical during the period September 2018- January 2019.

Total Students Successfully Completed: 43

Microprocessor and Microcontroller course will start with a discussion on a simple microprocessor, 8085. Understanding this architecture is the basis to follow any other complex CPU architecture. It will be followed by a complete overview of a range of microcontrollers covering 8051,8086, I/O interfacing and microcontrollers. The hardware intricacies of these processors and their programming will be covered. Students developed an in-depth understanding of the structure and operations of Microprocessors & Microcontrollers, and interfacing techniques and basic understanding of hardware and software interaction and integration.

Duration: 08 hrs Practical and 32 hrs theory

The students have completed 30 sessions including theory and practical during the period January 2019- May 2019.

Total Students Successfully Completed: 44



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