

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.

For more Information, contact Dedhila Devadathan (coordinator)

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.

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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 2017-18.

	Name	Designation
1	Dr. Anirudhan	Principal, Associate Professor, Department of Botany, 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



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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 2017-18.

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



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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 25th July, 2017 in the Department of Physics, Sree Narayana College, Kollam at 10.00 a.m. The following members were present for the meeting.

- 1 Dr. Anirudhan
- 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 2017-18.
 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 01 2017 and ends on Jan 02 2018.

- 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.

Smt. Roxy M.S proposed vote of thanks and the meeting was ended.



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SREE NARAYANA COLLEGE, KOLLAM
DEPARTMENT OF PHYSICS
CERTIFICATE COURSE TIME TABLE

Name: PYTHON PROGRAMMING (PY)

Duration: 30 Hrs

Start Date: SEP 01 2017

End Date: JAN 02 2018

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 01 2017

JAN 02 2018

LIST OF STUDENTS

SI No	Name of the Student	Gender	Class	Mobile No	Year of Admission
1	LEKSHMI A S	F	B.Sc.Physics	9496739040	2015
2	AHALYA G	F	B.Sc.Physics	9349455275	2015
3	DEVIKA A	F	B.Sc.Physics	9495204206	2015
4	ANJU S BABU	F	B.Sc.Physics	9495823287	2015
5	RIDHUN M	M	B.Sc.Physics	9496782317	2015
6	MANESH M	M	B.Sc.Physics	9656361642	2015
7	NAMITHA A S	F	B.Sc.Physics	8606478081	2015
8	ANANDHU S	M	B.Sc.Physics	9633420062	2015
9	ARATHY V T	F	B.Sc.Physics	9447865637	2015
10	DRISYA SHAJI KUMAR	F	B.Sc.Physics	9746926884	2015
11	AJIN A	M	B.Sc.Physics	9496250163	2015
12	JAN DEV	M	B.Sc.Physics	9497931028	2015
13	SHEBA M	F	B.Sc.Physics	9645857700	2015
14	ANEESH S PRIYAN	M	B.Sc.Physics	7034607893	2015
15	ANJANA S	F	B.Sc.Physics	9846982567	2015
16	SMITHA RAJ V	F	B.Sc.Physics	8907868635	2015
17	VISHNU R	M	B.Sc.Physics	7558843665	2015
18	KRISHNENDU B S	F	B.Sc.Physics	9495115758	2015
19	ARAVIND C PRADEEP	M	B.Sc.Physics	8547471355	2015
20	SUSMITHA S KUMAR	F	B.Sc.Physics	8943818773	2015
21	ANAMIKA V	F	B.Sc.Physics	9746231951	2015
22	JYOTHISH JAYAN	M	B.Sc.Physics	9847027736	2015
23	KRISHNA MOORTHY R	M	B.Sc.Physics	9288192871	2015
24	KEERTHI PRASANNAN	F	B.Sc.Physics	9400516798	2015
25	PARVATHY B	F	B.Sc.Physics	9846304187	2015
26	REJITHA REGUNATH	F	B.Sc.Physics	9947436500	2015
27	HIMA BASAND	F	B.Sc.Physics	9497456322	2015
28	ASWATHY Y S	F	B.Sc.Physics	9747791353	2015
29	SARANYA V R	F	B.Sc.Physics	8281076917	2015
30	KRISHNENDHU S B	F	B.Sc.Physics	9946442542	2015



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CERTIFICATE COURSE

Name : **PYTHON PROGRAMMING (PY)**

Duration : 30 Hrs

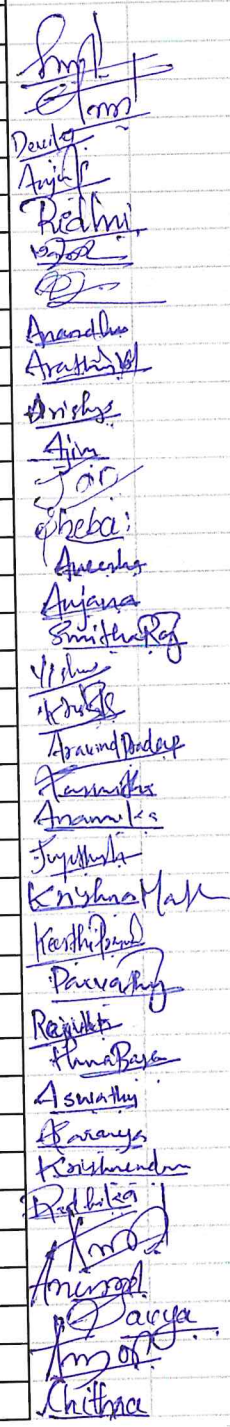
Start Date: **SEP 01 2017**

End Date:

JAN 02 2018

ATTENDANCE STATEMENT

SI No	Name of the Student	Register No:	% of Attendance
1	LEKSHMI A S	PY01	88
2	AHALYA G	PY02	89
3	DEVIKA A	PY03	85
4	ANJU S BABU	PY04	87
5	RIDHUN M	PY05	86
6	MANESH M	PY06	91
7	NAMITHA A S	PY07	89
8	ANANDHU S	PY08	90
9	ARATHY V T	PY09	92
10	DRISYA SHAJI KUMAR	PY10	90
11	AJIN A	PY11	94
12	JAN DEV	PY12	96
13	SHEBA M	PY13	89
14	ANEESH S PRIYAN	PY14	84
15	ANJANA S	PY15	80
16	SMITHA RAJ V	PY16	83
17	VISHNU R	PY17	84
18	KRISHNENDU B S	PY18	95
19	ARAVIND C PRADEEP	PY19	82
20	SUSMITHA S KUMAR	PY20	86
21	ANAMIKA V	PY21	87
22	JYOTHISH JAYAN	PY22	80
23	KRISHNA MOORTHY R	PY23	90
24	KEERTHI PRASANAN	PY24	92
25	PARVATHY B	PY25	94
26	REJITHA REGUNATH	PY26	85
27	HIMA BASAND	PY27	86
28	ASWATHY Y S	PY28	89
29	SARANYA V R	PY29	90
30	KRISHNENDHU S B	PY30	91
31	RADHIKA RAJENDRAN	PY31	95
32	ANUPAMA A R	PY32	91
33	ANUMOL R	PY33	90
34	SAVYASACHI B	PY34	88
35	AMAL M	PY35	89
36	CHITHRA	PY36	90



 A list of handwritten signatures corresponding to each student in the attendance statement, including names like Lekshmi, Anjali, Devika, Anju, Ridhun, Manesh, Namitha, Anandhu, Arathy, Drisya, Ajin, Jan Dev, Sheba, Aneesha, Anjana, Smitha, Vishnu, Krishnendu, Aravind, Susmitha, Anamika, Jyothish, Krishna, Keerthi, Parvathy, Rejitha, Hima, Aswathy, Saranya, Krishnendu, Radhika, Anupama, Anumol, Savyasachi, Amal, and Chithra.



SREE NARAYANA COLLEGE, KOLLAM
DEPARTMENT OF PHYSICS
CERTIFICATE COURSE

Name : PYTHON PROGRAMMING (PY)

Duration : 30 Hrs

Start Date: SEP 01 2017

End Date : JAN 02 2018

MARK LIST

Sl. No.	Enrollment No.	Name of the student	Name of the Department	Completed (Yes or No)	MARKS		
					THEORY MAX: 50	PRACTICALS MAX: 25	TOTAL MAX: 75
1	PY01	LEKSHMI A S	Physics	Yes	35	23	58
2	PY02	AHALYA G	Physics	Yes	37	23	60
3	PY03	DEVIKA A	Physics	Yes	37	23	60
4	PY04	ANJU S BABU	Physics	Yes	34	24	58
5	PY05	RIDHUN M	Physics	Yes	40	23	63
6	PY06	MANESH M	Physics	Yes	43	23	66
7	PY07	NAMITHA A S	Physics	Yes	34	23	57
8	PY08	ANANDHU S	Physics	Yes	34	23	57
9	PY09	ARATHY V T	Physics	Yes	45	25	70
10	PY10	DRISYA SHAJI KUMAR	Physics	Yes	43	23	66
11	PY11	AJIN A	Physics	Yes	40	23	63
12	PY12	JAN DEV	Physics	Yes	35	23	58
13	PY13	SHEBA M	Physics	Yes	45	23	68
14	PY15	ANEESH S PRIYAN	Physics	Yes	32	23	55
15	PY16	ANJANA S	Physics	Yes	45	23	68
16	PY17	SMITHA RAJ V	Physics	Yes	32	23	55
17	PY18	VISHNU R	Physics	Yes	36	23	59
18	PY19	KRISHNENDU B S	Physics	Yes	34	23	57
19	PY20	ARAVIND C PRADEEP	Physics	Yes	29	23	52
20	PY21	SUSMITHA S KUMAR	Physics	Yes	40	23	63
21	PY23	ANAMIKA V	Physics	Yes	34	23	57
22	PY24	JYOTHISH JAYAN	Physics	Yes	45	22	67





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 Jan 04th, 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. 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 2017-18.
- 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 2018 and ends on May 10 2018.
- The committee has suggested to consider the suggestions of the stake holders about the timing of the class.

Dept. of Physics
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- 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. Asitha L.R proposed vote of thanks and the meeting was ended.



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REPORT ON CERTIFICATE COURSE IN MICROPROCESSOR AND MICROCONTROLLER AND PYTHON PROGRAMMING

DEPARTMENT OF PHYSICS

ACADEMIC YEAR 2017-18

The BoS has decided to initiate the following courses in the academic year 2017-18.

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 01 2017 and ends on Jan 02 2018.
- 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 2017- January 2018.

Total Students Successfully Completed: 36

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 2018-May 2018.

Total Students Successfully Completed: 39



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