



SATHYABAMA

INSTITUTE OF SCIENCE AND TECHNOLOGY

(DEEMED TO BE UNIVERSITY)

Accredited "A++" Grade by NAAC | 12B Status by UGC | Approved by AICTE

www.sathyabama.ac.in

DEPARTMENT OF MECHATRONICS

S.No.	Name of the Value Added Course	Year of Offering	Duration	No. of students completed
1	Value added course on Python	2023	30 Hrs	20

Convener

Dr.B.Kanimozhi

Professor and HOD

HEAD OF THE DEPARTMENT
DEPARTMENT OF MECHATRONICS ENGINEERING
SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY
JEPPIAAR NAGAR, RAJIV GANDHI SALAI,
CHENNAI - 600 119.

1. Soft skill training in Therapeutic communication



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CATEGORY-1 UNIVERSITY BY UGC





School Of Mechanical Engineering Department Of Mechatronics Organising Value Added Course Python Programming



Scan QR Code

Date : 19-06-2023 to 14-07-2023

Timing : 03:30pm - 04:30pm

Venue : Mechatronics Lab

Registration Link
<http://www.sathyabama.ac.in>

DATE: 07/11/2023 TO 16/12/2023

CHIEF PATRONS

Dr. Mariazeena Johnson - Chancellor
Dr. Marie Johnson - President
Mrs. Maria Bernadette Tamlaras - Vice President
Mr. J. Arul Selvan - Vice President
Ms. Maria Catherine Jayapriya - Vice President

PATRONS

Dr. T. Sasiprabha - Vice Chancellor
Dr. G. Sundari - Director Administration

Conveners

Dr.B.Kanimozhi
Professor and HOD

Course Cordinators

Mr. J. R. Deepak
Assistant Professor
Department of Mechatronics Engineering
Mobile No: 9047382398

Mrs. M Sangeetha
Assistant Professor
Department of Mechatronics Engineering



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CHENNAI - 600 118

Week – 1 (10 hours)	Week – 2 (10 hours)	Week – 3 (5 hours)	Week – 4 (5 hours)
Introduction to Python and its applications	Conditional statements (if, else, elif)	Function arguments and parameters	Dictionaries: Key-value pairs, accessing, and modifying
Installing Python and setting up the environment (IDEs like VSCode, PyCharm, or Jupyter Notebooks)	Comparison and logical operators	Built-in functions vs. user-defined functions	Sets: Creating and performing set operations (union, intersection, etc.)
Basic syntax (print statements, comments, indentation)	Loops: for loops, while loops	Importing and using Python modules (math, random, etc.)	Opening, reading, writing, and closing files
Variables and data types (strings, integers, floats, booleans)	break and continue statements	Lists: Creating, accessing, modifying, and slicing	Practice Sessions (3 Hours)
Basic input/output operations (input(), print())	Creating functions in Python (syntax, return statements)	Tuples: Immutable sequences and their uses	Practice Sessions (3 Hours)
Practice Sessions (3 Hours)	Practice Sessions (3 Hours)	Practice Sessions (3 Hours)	Final Exam (3 Hours)

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Course Outcomes :

- Investigate Python syntax and semantics while using Python flow control and functions.
- Exhibit competence in handling the strings and file systems
- Implement python programs using lists dictionaries and regular expressions
- Implementing GUI Programming using Tkinter
- Create real time application of Python with examples including web development and networking.

Course Content

- Develop a solid understanding of python syntax and basic programming concepts such as variables, data types control structures and functions
- To Equip students with the skills to solve real-world problems using Python through the implementation of data structures, file handling, and error management.

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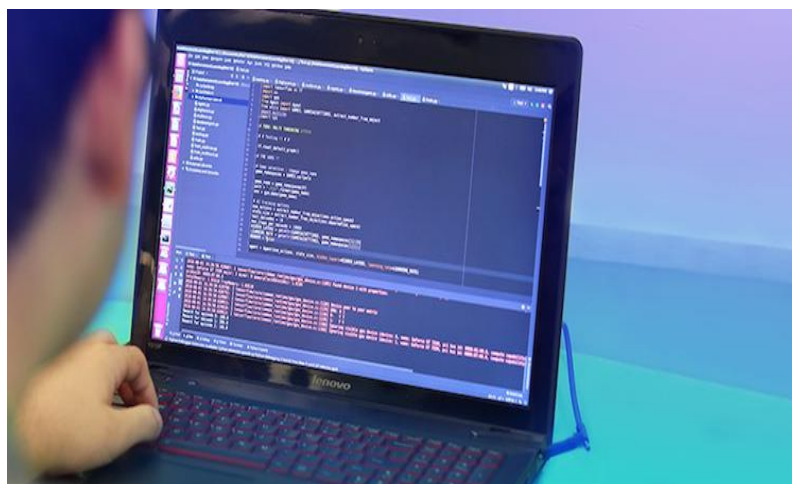
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- ☐ **Four-week Value Added Course on Python Programming for the Mechatronics students Department of Mechatronics, Sathyabama Institute of Science and Technology from 19-06-2023 to 14-07-2023.**



- ☐ **20 Undergraduate students Mechatronics Engineering successfully completed the Python Programming short-term course.**



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CHENNAI - 600 119.

LIST OF PARTICIPANTS

S. NO.	REG. NUMBER	STUDENT NAME
	42090004	ANANTHI V
2	42090006	ASWATH M
3	42090007	ASWIN RAJA P
4	42090008	BHARATH KUMAR T
5	42090009	DEEPIKA S
6	42090010	DURAIVEL A
7	42090011	GOKUL KUMAR D
8	42090012	HARISH K
9	42090013	HELWIN A
10	42090015	JITEN P
11	42090016	KARTHIK M
12	42090017	MOHAMMED AFZEL.G
13	42090018	NANDHA KUMAR P
14	42090019	NAVEEN KUMAR U
15	42090020	PANDRANKI SATYAVATHI
16	42090021	POTNURI RAKESH BABU
17	42090022	RAHEL GRAZEN S B
18	42090023	SALONI
19	42090024	SAMSON PRABAKARANB I
20	42090707	VISHAL VAISHNAV

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**SATHYABAMA INSTITUTE OF SCIENCE & TECHNOLOGY
CHENNAI**



CERTIFICATE OF PARTICIPATION



VISHAL VAISHNAV G

has successfully completed the "VALUE ADDED COURSE ON PYTHON PROGRAMMING", organized by Department of Mechatronics Engineering SCHOOL OF MECHANICAL ENGINEERING, SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY, CHENNAI.

DATE: 19 - 06 - 2023 to 14 - 07 - 2023

Mr. J. R. Deepak
Course Coordinator

Convener
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