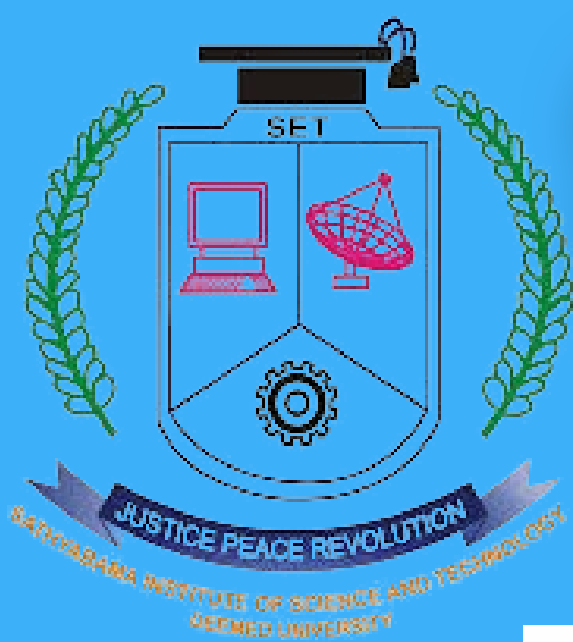




SATHYABAMA

INSTITUTE OF SCIENCE AND TECHNOLOGY
(DEEMED TO BE UNIVERSITY)
CATEGORY-1 UNIVERSITY BY UGC



School of Mechanical Engineering

Department of Mechatronics

Organizes

Value Added Course

Python Programming



Scan QR Code

Date :

19-06-2023 to 14-07-2023

Timing :

03:30pm - 04:30pm

Venue :

Mechatronics Lab

CHIEF PATRONS

Dr. Mariazeena Johnson - Chancellor

Dr. Marie Johnson - President

Mrs. Maria Bernadette Tamilarasi - Vice President

Mr. J. Arul Selvan - Vice President

Ms. Maria Catherine Johnson - Vice President

PATRONS

Dr. T. Sasiprabha - Vice Chancellor

Dr. S.S. Rao - Registrar

Dr. E. Loga Shanmugam - Pro Vice Chancellor

Dr. G. Sundari - Director Administration

Conveners

Dr.B.Kanimozhi

Professor and HOD

Course Coordinators

Mr. J. R. Deepak

Assistant Professor

Department of Mechatronics Engineering

Mobile No: 9047382398

Mrs. M Sangeetha

Assistant Professor

Department of Mechatronics Engineering

Course Content :

1. Develop a solid understanding of python syntax and basic programming concepts such as variables,
2. 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

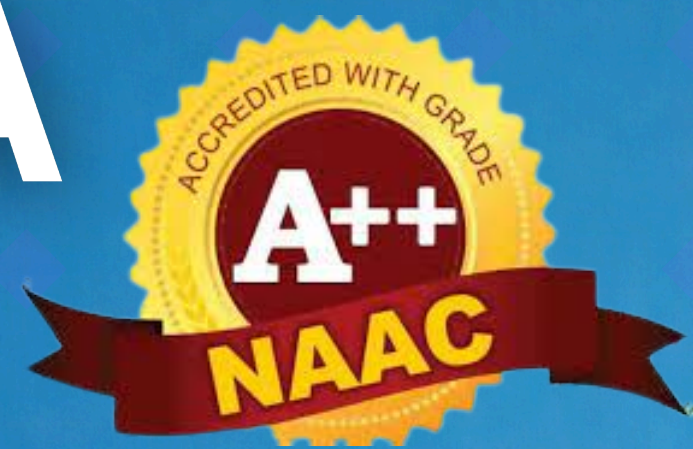
Course Outcomes :

- 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.



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<https://forms.gle/LK4JaYVSE1d3TFVT9>

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Ms. Maria Catherine Jayapriya - Vice President

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- To Equip students with the skills to solve real-world problems using Python through the implementation of data structures, file handling, and error management.

SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY
(Deemed to be University)

VALUE ADDED COURSE ON PYTHON PROGRAMMING

Organized by
Department of Mechatronics

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



```
gpu_data:\n    _init_(self):\n        gpu = gpuInfo.get_gpu(0)\n        self.load = int(gpu.query_load() * 100)\n        self.gpu_clock = int(round(gpu.query_scl\n        self.gpu_memory_usage = round(gpu.query\n        self.gpu_gtt_usage = round(gpu.query_gtt\n        self.power = gpu.query_power()\n        self.voltage = round(gpu.query_graphics\n        fans = sensors_fans()\n        for name, value in fans.items():\n            setattr(self, name, value[0][1])
```



For Registration Contact :

Mrs. M Sangeetha

Assistant Professor

Department of Mechatronics Engineering

Course Coordinator

Mr. J. R. Deepak

Assistant Professor

Department of Mechatronics Engineering

Mobile No: 9047382398

Convener

Dr.B.Kanimozhi

Professor and HOD

SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY
(Deemed to be University)
VALUE ADDED COURSE ON PYTHON PROGRAMMING
Organized by
Department of Mechatronics
Date: 19-06-2023 to 14-07-2023
COURSE PLAN

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)

SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY
(Deemed to be University)
FOUR WEEKS SHORT TERM SKILL DEVELOPMENT COURSE ON PYTHON PROGRAMMING
Organized by

Department of Mechatronics
Date: 19-06-2023 to 14-07-2023

COURSE OBJECTIVES

- 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.

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 Cad
- Create real time application of Python with examples including web development and networking.

- **Four-week Value Added Course on Python Programming for the Mechatronics students organized by Department of Mechatronics, Sathyabama Institute of Science and Technology from 19-06-2023 to 14-07-2023.**
- **20 Undergraduate students of Mechatronics Engineering successfully completed the Python Programming short-term course.**



Mr. J. R. Deepak
Course Coordinator

Convener
Dr.B.Kanimozhi
Professor and HOD

SCHOOL OF MECHANICAL ENGINEERING
SATHYABAMA
INSTITUTE OF SCIENCE AND TECHNOLOGY
(DEEMED TO BE UNIVERSITY)
Jupiaar Nagar, Rajiv Gandhi Salai,
Chennai - 600 119.

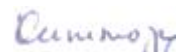
**LIST OF PARTICIPANTS FOR FOUR WEEKS SHORT TERM
SKILL DEVELOPMENT COURSE ON AUTOCAD DESIGN**

Organized by
Department of Mechatronics
Date: 19-06-2023 to 14-07-2023

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



Mr. J. R. Deepak
Course Coordinator



Convener
Dr.B.Kanimozhi
Professor and HOD

LIST OF PARTICIPANTS FOR FOUR WEEKS SHORT TERM SKILL DEVELOPMENT COURSE ON AUTOCAD DESIGN

Organized by
Department of Mechatronics
Date: 19-06-2023 to 14-07-2023
Attendance Sheet

			Date: 19-06-2023 to 14-07-2023																											
S. NO.	REG. NUMBER	STUDENT NAME	19	20	21	22	23	24	26	27	28	29	30	01	03	04	05	06	07	08	10	11	12	13	14					
1	42090004	ANANTHI V	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P					
2	42090006	ASWATH M	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P					
3	42090007	ASWIN RAJA P	P	P	P	P	P	P	P	P	A	A	A	P	P	P	P	P	P	P	P	P	P	P	P					
4	42090008	BHARATH KUMAR T	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P					
5	42090009	DEEPIKA S	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P					
6	42090010	DURAIVEL A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P					
7	42090011	GOKUL KUMAR D	P	P	P	P	P	P	P	P	A	A	A	P	P	P	P	P	P	P	P	P	P	P	P					
8	42090012	HARISH K	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P					
9	42090013	HELWIN A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P					
10	42090015	JITEN P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P					
11	42090016	KARTHIK M	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P					
12	42090017	MOHAMMED AFZEL.G	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P					
13	42090018	NANDHA KUMAR P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P					
14	42090019	NAVEEN KUMAR U	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P					
15	42090020	PANDRANKI SATYAVATHI	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P					
16	42090021	POTNURI RAKESH BABU	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P					
17	42090022	RAHEL GRAZEN S B	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P					
18	42090023	SALONI	P	P	P	P	P	P	P	P	A	A	A	P	P	P	P	P	P	P	P	A	A	P						
19	42090024	SAMSON PRABAKARANB I	P	P	P	P	P	P	P	P	A	A	A	P	P	P	P	P	P	P	P	A	A	P						
20	42090707	VISHAL VAISHNAV	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P					



Mr. J. R. Deepak
Course Coordinator


Convener

Dr. B. Kanimozhi
Professor and HOD

DEAN
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Chennai - 600 119.

SATHYABAMA INSTITUTE OF SCIENCE & TECHNOLOGY CHENNAI



CERTIFICATE OF PARTICIPATION



VISHAL VAISHNAV G

has successfully completed the VALUE ADDED COURSE ON PYTHON PROGRAMMING, Organized by the Department of Mechatronics Engineering, School of Mechanical Engineering ,Sathyabama Institute of science and Technology, Chennai.

DATE: 19.06.2023 to 14.07.2023

A handwritten signature in black ink, appearing to read 'J. R. Deepak'.

Mr. J. R. Deepak
Course Coordinator

A handwritten signature in purple ink, appearing to read 'B. Kanimozhi'.

Convener
Dr.B.Kanimozhi
Professor and HOD