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INSTITUTE OF SCIENCE & TECHNOLOGY
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PROGRAMME REPORT ON

Value Added Course-Introduction to Python for Civil Engineers

Resource Person

Ms.T.L.Elakkiya

Organized by

CIVIL- PMIST

DEPARTMENT OF CIVIL ENGINEERING

Periyar Nagar, Vallam, Thanjavur - 613 403, Tamil Nadu, India
Phone : +91 - 4362 - 264600 Fax : +91- 4362 - 264660
Email: headce@pmu.edu Web: www.pmu.edu



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Value Added Course on “INTRODUCTION TO PYTHON FOR CIVIL ENGINEERS”

28.09.2024 to 05.10.2024

Value Added Course on
“INTRODUCTION TO PYTHON FOR CIVIL ENGINEERS”

28.09.2024 to 05.10.2024

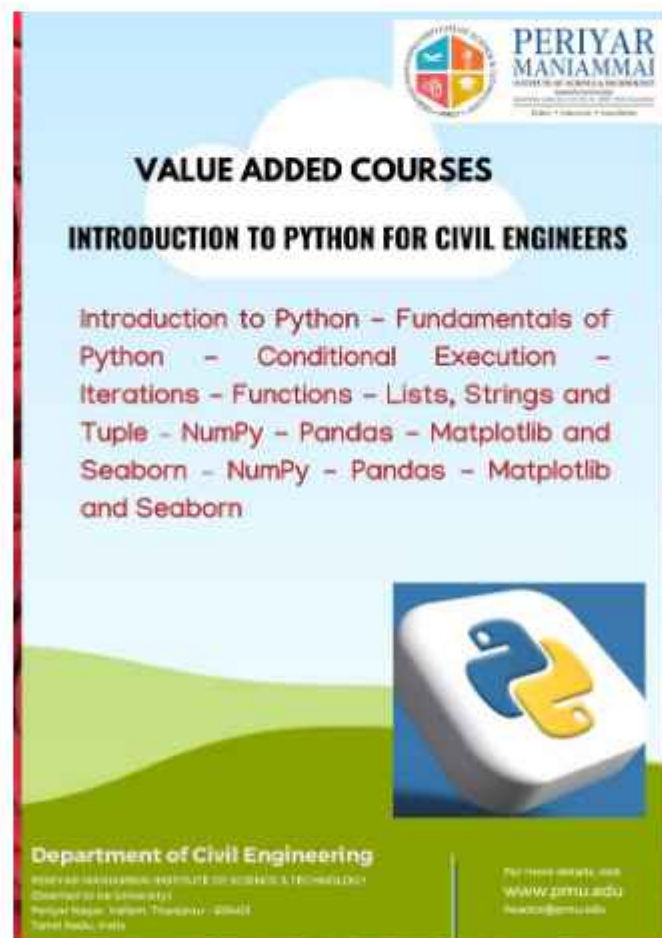
Table of Content

S.No	Description	Page No
1	Objective	3
2	Brochure	3
3	Programme Schedule	4
4	Report of the Programme	5
5	Online screen shots with captions	6
6	Outcome of the Programme	7
7	Attendance- Participants	8

OBJECTIVE

The objective of providing Python as Value-Added Course for Civil Engineering students is to equip them with computational and programming skills that enhance problem-solving abilities in engineering applications. Python enables automation of repetitive tasks such as structural analysis, geotechnical computations, and surveying data processing, improving efficiency in civil engineering workflows. It supports data analysis and visualization using libraries like NumPy, Pandas, and Matplotlib, making it valuable for handling large datasets in construction, geospatial mapping, and environmental studies.

BROCHURE



DEPARTMENT OF CIVIL ENGINEERING

Periyar Nagar, Vallam, Thanjavur - 613 403, Tamil Nadu, India
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PROGRAMME SCHEDULE

Course Instructor: Ms.Elakkiyaa T L, Research Scholar, IISc

DATE	FORENOON	AFTERNOON
28.09.24	Introduction to Python Fundamentals of Python	Hands on Experience
30.09.24	Conditional Execution Iterations	Hands on Experience
01.10.24	Functions Lists, Strings and Tuple	Hands on Experience
03.10.24	NumPy Pandas Matplotlib and Seaborn	Hands on Experience
04.10.24	NumPy Pandas Matplotlib and Seaborn	Hands on Experience
05.10.24	Hands on Experience	Project Assessment

Name of the Programme	INTRODUCTION TO PYTHON FOR CIVIL ENGINEERS
Date	28.09.2024 to 05.10.2024
Venue	Computational Lab, Department of Civil Engineering.
Number of Participants	II Year- 30 students
Course Instructor	Ms.T.L.Elakkiyaa, Research Scholar, IISc, Bangalore.

About the Programme

"Introduction to Python for Civil Engineers" a value added course was conducted to familiarize civil engineering students with the applications of Python in their field. The session aimed to highlight the importance of programming in modern engineering, introduce basic Python concepts, and demonstrate practical applications in civil engineering. The course aimed to introduce the fundamentals of Python programming and equip participants with basic coding skills useful for automation and problem-solving in civil engineering. Further to encourage the adoption of computational tools for enhanced efficiency in engineering projects the course was offered. The participants gained an understanding of Python's role in civil engineering. The importance of computational tools in modern civil engineering practices was emphasized. Hands-on experience helped attendees grasp basic programming concepts and applications. The event encouraged participants to explore further learning and application of Python in their academic and professional work.



HoD/ Civil delivering the importance of Python for civil engineers and introducing the course instructor for the students



View showing the hands on experience session on Python at Computational Lab

Outcome of the course

The Participants gained an understanding of Python's role in civil engineering and the importance of computational tools in modern engineering practices was emphasized. The Hands-on experience helped attendees grasp basic programming concepts and applications. Additionally the course stimulated the students to explore further learning and application of Python in their academic and professional work. Thus by mastering Python, civil Engineers can enhance their analytical capabilities, automate engineering tasks, and integrate advanced technologies into real-world applications, driving innovation and efficiency in the field.

Department of Civil Engineering

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VALUE ADDED COURSE - INTRODUCTION TO PYTHON FOR CIVIL ENGINEERS

Academic year : 2023-2024

Date : 28.09.24-05.10.24

Sl. No.	Register Number	Name	28.9.24						
			1	2	3	4	5	6	7
1.	123012018001	KISHOREKUMAR S	/	/	/	/	/	/	/
2.	123011018002	VEDHAVALLI MS	/	/	/	/	/	/	/
3.	123011018003	ABARNA KA	/	/	/	/	/	/	/
4.	123012018004	ARUN M	/	/	/	/	/	/	/
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16.	124012061740	VELUSRIDHAR B	/	/	/	/	/	/	/
17.	124012061741	VENGADESAN B	/	/	/	/	/	/	/
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19.	1230120111172	ELAMARAN G	/	/	/	/	/	/	/
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Convenor

HoD/ Civil Engineering
 Head of the Department

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Sl. No.	Register Number	Name		30.9.24						
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[Signature]
 Convenor

[Signature]
 HoD/ Civil Engineering
 Head of the Department
 Department of Civil Engineering
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 Periyar Nagar, Vallam, Thanjavur - 613 403.

Department of Civil Engineering

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G. Priya
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13.	124012061736	MADHUBALAN	R	/	/	/	/	/	/	/
14.	124012061738	SANJEEVAN	D	/	/	/	/	/	/	/
15.	124012061739	SHEIK ABDULLA	M	/	/	/	/	/	/	/
16.	124012061740	VELUSRIDHAR	B	/	/	/	/	/	/	/
17.	124012061741	VENGADESAN	B	/	/	/	/	/	/	/
18.	1230120111171	BALAMUKESH	TM	/	/	/	/	/	/	/
19.	1230120111172	ELAMARAN	G	/	/	/	/	/	/	/
20.	1230120111174	KAVIYARASAN	F	/	/	/	/	/	/	/
21.	1230120111175	KAVIYARASAN	R	/	/	/	/	/	/	/
22.	1230120111176	PRASANNA	MU	/	/	/	/	/	/	/
23.	1230110111177	SAGANA SHREEN	M	/	/	/	/	/	/	/
24.	1230110111178	SUDHEKSHA	K	/	/	/	/	/	/	/
25.	1230120111179	SUMANKUMAR	S	/	/	/	/	/	/	/
26.	1230110111180	SVEKA ABIDHARSHINI	B	/	/	/	/	/	/	/
27.	1230120111181	SYED NOOR JAVID	SF	/	/	/	/	/	/	/
28.	1230120111182	BHUVANESWARAN	R	/	/	/	/	/	/	/
29.	1230120111183	KISHORE	I	/	/	/	/	/	/	/
30.	1230120111184	VENUARJUN	M	/	/	/	/	/	/	/

S. P. M.
 Convenor

S. K. M.
 HoD/ Civil Engineering
 Head of the Department
 Department of Civil Engineering
 Periyar Maniammai Institute of Science & Technology
 Periyar Nagar, Vallam, Thanjavur - 613 403.