

Alva's Institute of Engineering & Technology

Shobhavana Campus, Mijar, Moodbidri, D.K - 574225

Phone: 08258-262725. Fax: 08258-262726

Date: 8-4-2021

From,
Head of the Department
Department of CSE
AIET, Moodbidri

To, The Principal, AIET, Moodbidri

Sub: Seeking permission to conduct the FDP on "Applications of Mathematical Concepts in Data Analysis and Machine Learning using Python" – reg...

As cited in the above subject, the Department of Computer Science and Engineering is conducting a faculty development program on 21st April 2021, for all faculties of AIET. In this regard I request your kind permission and guidance.

Thanking You.

Dept. Of Computer Science & Engineering Alva's Institute of Engg. & Technology Mijar, MOODBIDRI - 574 225

CC to:

1. All HODs

PRINCIPAL

.lva's Institute of Engg. & Technology, Mijur. MOODBIDRI - 574 225, D.K



Alva's Institute of Engineering & Technology

Shobhavana Campus, Mijar, Moodbidri, D.K - 574225

Phone: 08258-262725, Fax: 08258-262726

11/04/2

Circular

All the staffs are hereby informed to attend and actively participate in the faculty development programme from 19/04/2021 to 21/04/2021 on the topic Applications of Mathematical Concepts in Data Analysis and Machione Learning usong Python by Dr.S.Mohideen Badhusha ,Sr.Professor,Dept of CSE.

H. O. D.

Dept. Of Computer Science & Engineering Alva's Institute of Engg. & Technology Mijar, MOODBIDRI - 574 225

Cc to,

All the department HOD S and faculty.

Faculty Development Programme on

"Applications of Mathematical Concepts in Data Analytics and Machine Learning using Python" 19th to 21st April 2021

ORGANIZING COMMITTEE

Chief Patron: Dr. M. Mohan Alva

Chairman, AEF

Patron : Sri. Vivek Alva

Managing Trustee, AEF

Chief Advisor: Dr. Peter Fernandes

Principal, AIET

Convener : Dr. Manjunath Kotari

Professor & Head, Dept. of CS&E

Resource Person: Dr. S.Mohideen Badhusha,

Sr. Professor, CSE, AIET

Coordinator :Prof. Megha D. Hegde

Assistant Professor, Dept. of CS&E

Members : Prof. Sayeesh

Prof. Ankitha Shetty Prof. Shruthi Shetty J

Prof. Shilpa Prof. Veena M

Contact Person for Correspondence

Prof. Megha D. Hegde Phone: 7760052722

Email: meghahegde@aiet.org.in

Register on or before 10th April, 2021

Registration Fee: Rs. 200

Payment mode: Google pay or 7760052722@upi

Three Days (Offline) Faculty Development Programme on

"Applications of Mathematical Concepts in Data Analytics and Machine Learning using Python"

 19^{th} to 21^{st} April, 2021

Organized by

Department of Computer Science and Engineering

in association with

Computer Society of India (CSI)





Alva's Institute of Engineering & Technology

Shobhavana , Mijar, Moodbidri – 574225 D.K. Karnataka State

(Accredited by NBA New Delhi (CSE & ECE))

Web Site: aiet.org.in

Phone 08258-262726, 262724, 262725



ALVA'S INSTITUTE OF ENGG. & TECHNOLOGY

Alva's Institute of Engineering and Technology, Mijar, Moodbidri is a premier Engineering Institute of Alva's Education Foundation, established in the year 2008, located adjacent to Mangalore-Sholapur National Highway, which is 24 Kms from Mangalore International Airport. The college is recognized by All India Council for Technical Education (AICTE), New Delhi & Affiliated to Visvesvaraya Technological University, Belagavi. The college is ranked as one of the best Technical Institute in South Canara region. The institute offers under graduate programs in 5 branches of Engineering - Computer Science & Engineering, Civil Engineering, Electronics & Communications Engineering, Information Science & Engineering, Mechanical Engineering. Department of CSE and ECE were accredited by NBA New Delhi. Seven departments at the institute has been recognized as research centers by Visvesvaraya Technological University, Belagavi.

Department of Computer Science & Engineering

Department of Computer Science and Engineering started functioning from the year 2008, with an intake of 60 and has enhanced to 120 & 180 from academic year 2012-13 & 2020-21 respectively. The Post Graduate course, M.Tech in Computer Science and Engineering, was introduced from the academic year 2012-13 with an intake of 18 students. Department is recognized as a research centre from VTU. Faculty members are actively involved in co-curricular and extracurricular activities with association and professional bodies like CSI/ISTE. Department of Computer Science & Engineering has always been on a high growth and path since its establishment. To keep pace with latest technologies, department has employed experienced and dedicated faculty with strong commitment towards research work. The department is dedicated to education, research and overall excellence. For skill development Department have highly equipped add-on labs like Envision lab, Innovation Lab and iOS Lab.

The students are well placed in reputed industries as well as continuing higher education in the premier institutes. The Department of CSE organizes various events such as workshops, Seminars, Technical talks, delivered by eminent resource persons from academia & industry, who have excelled in their field.

The department regularly conducts special courses on advanced topics. Department of CSE encourages the faculty and students for participating in research activities for enhancing their subject knowledge and acquire information regarding current trends.

VISION OF THE DEPARTMENT

"Engendering competent, excellent professionals by transforming the knowledge and computing skills to individuals through modern innovative tools and techniques"

MISSION OF THE DEPARTMENT

- To produce skilled, creative software developers through rigorous training.
- To conduct specific technical courses to keep abreast to the latest technological developments and transformations in the domain.
- To implement the ideas of research and innovations in interdisciplinary domains.
- To establish Industry-Institute Interaction programs to enhance the skills of employability and entrepreneurship.

PROGRAM SPECIFIC OUTCOMES

A graduate of the Computer Science and Engineering Program will exhibit:

PSO1: Professional Skills: The ability to understand & implement the computer programs in the areas of Computer Architecture, System Software, Database Management Systems, Web Design, Multimedia and Computer Networking.

PSO2: Problem-Solving Skills: The ability to solve real-world problems by suitable mathematical model with strong technological concepts in rapidly growing arena of computer technology.

PSO3: Successful Career and Entrepreneurship: Knowledge in diverse areas of Software Engineering and Management & Entrepreneurship for IT Industry, conducive in cultivating skills for successful career development.

PROGRAM EDUCATIONAL OBJECTIVES

The graduates of Computer Science & Engineering will able to

PEO1: Exhibit fundamental strength in core courses of Computer Engineering to solve the problems of computing world.

PEO2: Adapt and contribute the emerging technological changes.

PEO3: Employed in computing profession or engaged in learning to pursue higher studies.

FDP OVERVIEW

The main objective of the FDP is to groom the problem solving skills in mathematics especially in Data analytic and Machine Learning using Python. The Python package Sympy helps solve the problems in Mathematics with simple coding skill in Python language.

The basic Python coding skill is trained so that any traditional mathematical problem can be solved through Sympy. In addition to it, the mathematics in Data analytic and Machine Learning is imparted through Exercises so that problems related to Data analytic and Machine Learning can be solved through Python package Sympy.

FDP OBJECTIVES

Learning Objectives:

- To make the faculty members understand the basics of Python to implement the basic mathematical concepts
- To enhance the coding skill in Python to implement the mathematical concepts in Data Analytic and Machine Learning
- To provide on-line hands-on training sessions with which the required knowledge of implementation of mathematical concepts in Data Analytic and Machine Learning.

EXPECTED OUTCOME

- The faculty members will be able to imbibe the basics of Python to implement basic mathematical concepts in practical perspective.
- The faculty members will be able to implement the mathematical concepts in Data Analytics and Machine Learning Models through acquired knowledge in Python

TARGET AUDIENCE

The FDP is open for the faculty members of Mathematics department, research scholars, PG Scholars, participants from Government, Industry and staff of host institutions. Maximum 40 participants may be allowed to attend offline FDP on a first come first serve basis.

	Day	Session	Portions/ Activities	Duration
Three Days (Offline) Faculty Development Programme on "Applications of Mathematical	DAY 1 FN	Session 1 (9.30 am -11.30 am)	Inaugural Function Lecture Session on basics of Python with demo	2 hour
Concepts in Data Analytics and Machine Learning using Python"		Session 2 (11.45 am – 1.00 pm)	Hands-on session for solving relevant exercises	1 1/4 hour
19 th to 21 st April, 2021	DAY 1 AN	Session 3 (2.00 pm -3.00 pm)	Lecture Session on basics of Python with demo	1 hour
REGISTRATION FORM		Session 4 (3.15 pm – 4.30 pm)	Hands-on session for solving relevant exercises	1 1/4 hour
Name: Organization:	DAY 2 FN	Session 1 (9.30 am -11.30 am)	Lecture Session on Implementation of Mathematical concepts using python with demo	2 hour
Address for communication:		Session 2 (11.45 am – 1.00 pm)	Hands-on session for solving relevant exercises	1 1/4 hour
Phone: No:	DAY 2 AN	Session 3 (2.00 pm -3.00 pm)	Lecture Session on Implementation of Mathematical concepts using python with demo	1 hour
Online Registration Link: https://forms.gle/fGbMqAt2qRiMkTEJ7		Session 4 (3.15 pm – 4.30 pm)	Hands-on session for solving relevant exercises	1 1/4 hour
REGISTRATION FEE DETAILS Date: Transaction No:	DAY 3 FN	Session 1 (9.30 am -11.30 am)	Lecture Session on Implementation of Mathematical concepts in Data science and Machine Learning using python with demo	2 hour
Amount:		Session 2 (11.45 am – 1.00 pm)	Hands-on session for solving relevant exercises	1 1/4 hour
Place: Signature of the Participant:	DAY 3 AN	Session 3 (2.00 pm -3.00 pm)	Lecture Session on Implementation of Mathematical concepts in Data science and Machine Learning using python with demo	1 hour
Signature of the Head of the Institution with seal:		Session 4 (3.15 pm - 4.30 pm)	Hands-on session for solving relevant exercises Valedictory Function	1 1/4 hour

Alva's Institute of Engineering & Technology

Moodbidri - 574225, D.K Distict., Karnataka, India

(Accredited by NBA, NewDelhi CSE & ECE)





Faculty Development Programme (FDP)

On

"Applications of Mathematical Concepts in Data Analytics and Machine Learning using Python"

Organized by Department of **Computer Science and Engineering**In Association with **Computer Society of India (CSI)**

From

19th to 21th April 2021

INVITATION	
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ALVA'S INSTITUTE OF ENGINEERING AND TECHNOLOGY, MOODBIDRI

We cordially invite you to the

INAUGURATION

of

Faculty Development Programme (FDP)

on

"Applications of Mathematical Concepts in Data Analytics and Machine Learning using Python"





Resource Persons: Dr. S. Mohideen Badhusha.

Sr. Professor, Department of CSE, AIET, Mijar

Patron: Mr. Vivek Alva, Managing Trustee, AEF, Moodbidri

Chief Advisor: Dr. Peter Fernandes, Principal, AIET, Mijar, Moodbidri

Convener: Dr. Manjunath Kotari, Professor and Head, Dept. of CS & Engg.



Alva's Institute of Engineering & Technology Shobhavana Campus, Mijar, Moodbidri, D.K - 574225

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Faculty Development Programme on "Applications of Mathematical Concepts in Data Analytics and Machine Learning using Python" from 19th April to 21st April 2021.

List of Participants

S	1	Name			
N	o		College Name with Address	Phone Number	Signature
	1.	PARTHA SARATHI PATI	Alti, Mijar	9854528595	280
	2.	RASHMI R	AIET, Mijar	8095661974	Rac
	3.	NISHA KUMARI	AIET, Mijar	9611820582	~ Lile
196	4.	SOWMYA	AIET, Mijar	9964981549	Sort
	5.	DEEPAK K S	Deepak 1KIS PG studies Alva's college certir for	L 288 H 5 J 639	1.60
	6.	KAVITHA.B	V	7481446513	2
	7.	DR. PRAMEELA KOLAKE	ALET Mijan	9448711100	Bress
	8.	DR. PRASHANTHI K S	ATET, My'an	9611627987	PD-
0	9.	KISHOR KUMAR	Kishor Kumar Alva's College	9731312475	Off .
-	10.	VEDAMURTHY H N	Alva's Centre for PG studies arrd Research	8951004098	Oll.
	11.	DHANYASHREE	Pilva's Colleger Centre for PG	9740264908	
		ATHIKARI	Studies and Research AMais college, centerfor PG studies and Research.		Gonellike
	12.	GANESH H N	ANais college, cerro	9113659069.	Your KAP
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Alva's Institute of Engineering & Technology Shobhavana Campus, Mijar, Moodbidri, D.K - 574225

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

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	ATES, Mijar	948054417	R
15. K. Sureendra	AIET, Mijar, CSE Ded	9014881394	lan
	2 10 -		Dave.

16. Ms. Anusha Alavas collège. 17. Mrs. Vivian. Alvas Collège.



Alva's Institute of Engineering & Technology Shobhavana Campus, Mijar, Moodbidri, D.K - 574225

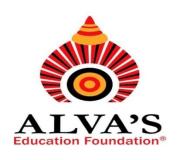
DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Faculty Development Programme on "Applications of Mathematical Concepts in Data Analytics and Machine Learning using Python" from 19th April to 21st April 2021.

Attendance Sheet

Sl.	Name	19th Ap	ril	20th Ap	ril	21st Ap	ril
No		FN	AN	FN	AN	FN	AN
1	PARTHA SARATHI PATI		PS	PER	f@	182	file?
2.	RASHMIR ,	Be	Par	Pa	Q.	B	R
3.	NISHA KUMARI .	4/2/2	N.I.	2	Die	VER	1 his
4.	SOWMYA .	Swings	Source	Sousmill	South	Sarah	Sorom
5.	DEEPAK K S .	D. 600	John Marie Control	JAK C		100	
6.	KAVITHA.B .	X	18	18	8	18	Retar
7.	DR. PRAMEELA KOLAKE	By.	Bà	122	132		
8.	DR. PRASHANTHI K S	977	Ph	Ph	py	2	<u> </u>
9.	KISHOR KUMAR.	W.	M.		A.	M.	200
10.	VEDAMURTHY H N ·	le.			<u> </u>		
11.	DHANYASHREE ATHIKARI	E CONTROL OF	-				Carell
12.	GANESH H N .	Gandle	the Fart	h Gorns	h gant	r your	34 10475
13.	SYDNA REEMA SERRAO ·	Bylo	e By	Bylo	2. By	2 JEN	100
14.	Mr. MADHUSUDHAN	De	09	1/8	100	// // //	10
15.		10.1	1	1 W	W	14	
16.	MS ANUSHA.		10	<u> </u>			D 100
17.	Nyu. VIVIAN . VEERA CRASTO	0		- Ch		V	
18.							

ALVA'S INSTITUTE OF ENGINEERING & TECHNOLOGY, MOODBIDRE



DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Report on offline FDP on

"Applications of Mathematical Concepts in

Data

Analytics and Machine Learning using Python"

from 19th to 21th April 2021

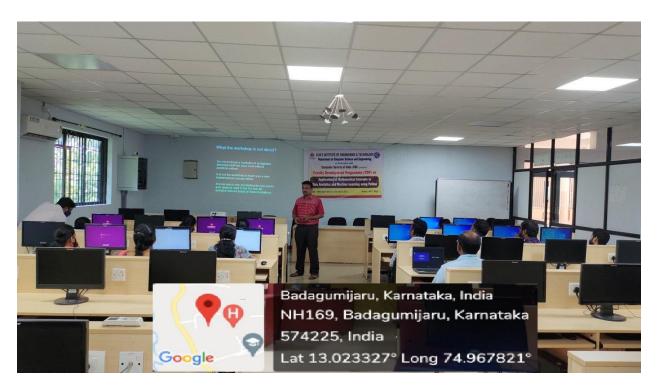
Department of CSE organized offline FDP on "Applications of Mathematical Concepts in Data Analytics and Machine Learning using Python" from 19th to 21th April 2021. 14 Participant from various colleges joined this workshop.

The main objective of the FDP is to groom the problem solving skills in mathematics especially in Data analytic and Machine Learning using Python. The Python package Sympy helps solve the problems in Mathematics with simple coding skill in Python language. The basic Python coding skill is trained so that any traditional mathematical problem can be solved through Sympy. In addition to it, the mathematics in Data analytic and Machine Learning is imparted through Exercises so that problems related to Data analytic and Machine Learning can be solved through Python package Sympy.



Day 1: The day started with Inaugural Function. Principal, HODs of various department, resources person graced the inaugural function. The day then continued with the daily sessions. The first lecture Session was on basics of Python with demo and continued with Hands-on session for solving relevant exercises. The after session dealt with Lecture Session on basics of Python with demo followed by Hands-on session with relevant exercises.

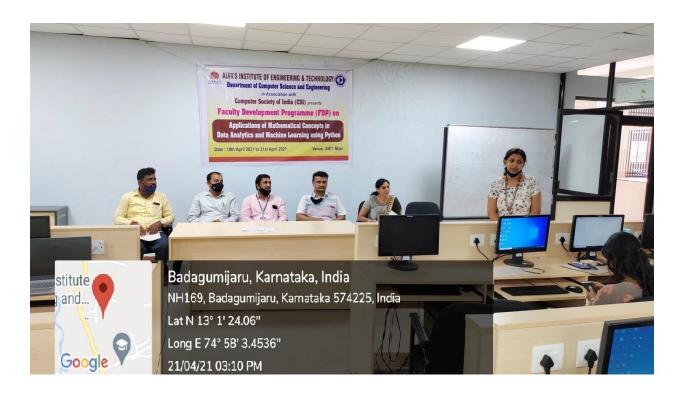
Day 2: This day the lecture session was on Implementation of Mathematical concepts using python with demo followed by Hands-on session for solving relevant exercises. Afternoon session started with explanation on Implementation of Mathematical concepts using python with demo followed by Hands-on session for solving relevant exercises.



Day 3: On this day Lecture Session was on Implementation of Mathematical concepts in Data science and Machine Learning using python with demonstration followed by Hands-on session for solving relevant exercises. The afternoon session was on Implementation of Mathematical concepts in Data science and Machine Learning using python with demo then participants was given hands-on session for the same.

The FDP was concluded on 21st April 2021 by having valedictory function by getting the feedback from the participants and certificates was also given to the participant.







Outcomes of FDP:

- To make the faculty members understand the basics of Python to implement the basic mathematical concepts
- To enhance the coding skill in Python to implement the mathematical concepts in Data Analytic and Machine Learning
- To provide on-line hands-on training sessions with which the required knowledge of implementation of mathematical concepts in Data Analytic and Machine Learning.





ALVA'S INSTITUTE OF ENGINEERING & TECHNOLOGY Shobhavana Campus, Mijar, Moodbidri, D.K - 574225 Department of Computer Science and Engineering

Date: 14-04-2021

1. Name of the event

: Budget of FDP on "Applications of Mathematical

Concepts in

Data Analytics and Machine Learning using Python" to be held

from 19^{th} April to 21^{st} April 2021.

2. Dept. organizing the event

: CSE

3. Resource Person

: Dr. S. Mohideen Badhusha, Sr. Professor, Dept. of CSE

4. Coordinator

: Ms. Megha D. Hegde, Dept of CSE

Sl. No.	Particulars	Party	Amount
1.	FDP registration FEE (200Rs.*20 Participants)	Dept. of CSE, AIET	4000=00
2.	Printing & Stationary	Nil	
3.	Banner +Certificate	Madhuban Printers, Moodbidri	
4.	Transportation & Others	Nil	
5.	Food & Refreshment	Tea + Snacks	600=00
		Total	5800=00

Rupees: Five Thousand Eight hundred Only

Prepared by: Ms. Megha D. Hegde

Dept. Of Computer Science & Engineering Alva's Institute of Haggs & Technology

Mijar, MOODBIDRI - 574 225



ALVA'S INSTITUTE OF ENGINEERING & TECHNOLOGY Shobhavana Campus, Mijar, Moodbidri, D.K - 574225 Department of Computer Science and Engineering

Date: 23-04-2021

1. Name of the event

: Expenses of FDP on "Applications of Mathematical

Concepts in Data Analytics and Machine Learning using Python" held on 19th

April to 21st April 2021.

2. Dept. organizing the event

: CSE

3. Resource Person

: Dr. S. Mohideen Badhusha, Sr. Professor, Dept. of CSE

4. Coordinator

: Ms. Megha D. Hegde, Dept of CSE

Sl. No.	Particulars	Party	Amount
1.	FDP registration FEE (200Rs.*12 Participants)	Dept. of CSE, AIET	2400=00
2.	Printing & Stationary (Banner +Certificate)	Madhuban Printers, Moodbidri	1123=00
3.	Transportation & Others	Nil	
4.	Food & Refreshment	Tea + Snacks	487=00
		Total	4010=00
		Advance	2400=00
		Total amount spent	1610=00
		Funds Remaining in department Fund	790=00

Rupees: Five Thousand Eight hundred Only

Prepared by: Ms. Megha D. Hegde

Dept. Of Computer Science & Engineering Alva's Institute of Engli. & Technology Mijar, MCODBIDRI - 574 225



Madhuban

: MOODABIDRI BRANCH

Branch

Pancharatna Business Centre Alvas Hospital Road, Moodabidri - 574 227

COLOURZ		E-mail: n	Tel.: nadhuban.cc	+91 8258 239773 llourz@gmail.com
TAXINVOICE	W: AECP			: 29AECPA8061P1Z5
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		Add: IGS	RAND TOTAL	283.8
Company Bank Details Bank Name : KARNATAKA BANK LTD	Certified th	at the partic	ulars given above	are true and correct



Bank A/C

Branch

Bank IFSC

: KARB0000482

: MOODABIDRI BRANCH

Pancharatna Business Centre Alvas Hospital Road, Moodabidri - 574 227

Authorised Signatory

COLOURZ	Tel.: +91 8258 239773 E-mail: madhuban.colourz@gmail.com
TAXINVOICE	PAN: AECPA8061P
Invoice No : MCM 044 Invoice Date : $20/4/202/$ State : Karnataka Code : 29	E-Way Bill No Vehicle Number PO No PO Date
Name : ATET, Myan Address : GSTIN :	Code:
State PRODUCT DESCRIPTION NO.	HSN QTY PER UNIT TAXABLE VALUE
Pointing Changes of Contificate	50 750-60
Total Invoice Amount in Words Rupees Eight hundred fourty Duly	Add: CGST 6.1. 145 - 0.2 Add: SGST 6.1. 145 - 0.2 Add: IGST GRAND TOTAL 840 - 0.2 Certified that the particulars given above are true and correct
Company Bank Details Bank Name : KARNATAKA BANK LTD Bank A/C : 4822000100025901	For Madhuban Colourz

CASH BILL

Bill No.			
To:	The Snack How	SE	
10:		Date : 21	4/2021

No.	PRODUCT			
110.	TRODUCT	QUANTITY	RATE	AMOUNT
	Tea & coffee	23	In	220
	Sanola	21	12	252
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	TOTAL AMOUNT			487-

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- Please pay by A/c payee cheque drawn in favour of Melroy Lobo
- Interest at 20% per annum will be charged for overdue payments
- Goods once sold will not be taken back
- Our responsibility ceases as soon as the goods leave our premises
- All disputes will be subject to Mangalore jurisdiction only
- All taxes are suffered at our suppliers end

MELROY LOBO

Signature



ALVA'S INSTITUTE OF ENGINEERING & TECHNOLOGY

Shobhavana Campus, Mijar, Moodbidri - 574 225.

(Affiliated to Visvesvaraya Technological University, Belagavi)
(Accredited by NBA, NewDelhi CSE & ECE)

Certificate of Participation

Dr. S Mohideen Badhusha Resource Person Dr. Manjunath Kotari HOD, Dept. of CSE Dr. Peter Fernandes
Principal