

Table of Content

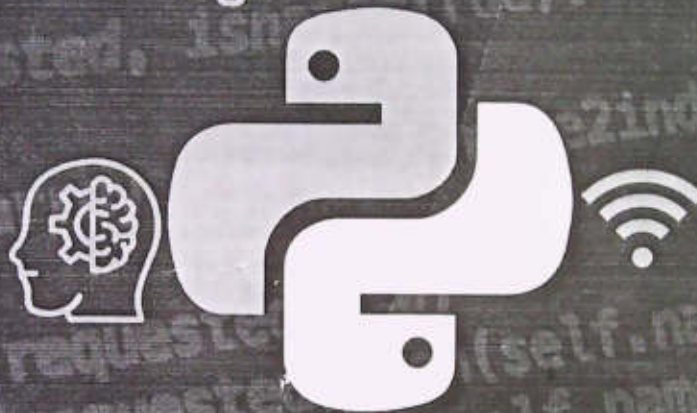
Sl. No	Contents
1	Poster
2	Event Proposal
3	Event Photographs
4	Schedule
5	Feedback Report
6	Student Attendance
7	Sample Certificate



ADD ON
COURSE

ADEC 401

FUNDAMENTALS IN PYTHON PROGRAMMING



DATE

10 - 14 MARCH 2023

TIME

09:00 AM - 04:10 PM

VENUE

ADVANCED COMMUNICATION LAB,
ECE DEPARTMENT

PARTICIPANTS

54 ECE STUDENTS

COORDINATORS

MR. VINOD J THOMAS
MR. MANOJ K C
MS. JERRIN YOMAS

CONVENOR

DR. D ANTO SAHAYA DHAS

EVENT PROPOSAL FORM



1	Event type and Name	Add on course on "Fundamentals in python programming"
2	Date and time	10/03/2023 to 14/03/2023, 9.00AM to 4PM
3	Participants/audience	S4 ECE students (2021-25 Batch).
4	Venue	ECE department -Advanced communication engineering lab.
5	Objectives	To understand the fundamentals of Python programming language.
6	Expected outcomes	Students will understand Python fundamentals and they will be able to develop python programs for various applications.
7	Connected POs/PSOs	PO1, PO3, PO5, PO12
8	Resource requirements	Course fee - Rs.30000 + 18% GST (Approved by the management)
9	Any other Relevant Information	Resource Person/team - Quest Innovative solutions Kannur. Accommodation is required for the resource team (2 members)
10	Responsible Persons	Mr. Vinod J Thomas ,ASP, ECE Mr. Manoj K C ,ASP, ECE Ms. Jerrin Yomas , ASP, ECE
11	Department	Electronics & Communication Engineering Department, VJEC.

Proposal prepared by
Vinod J Thomas
Assoc. Prof, ECE

Proposal Recommended by
Dr. Anto Sahaya Dhas
Professor & Head , ECE Dept.

Report

VIMAL JYOTHI ENGINEERING COLLEGE, CHEMPERI
DEPARTMENT OF ELECTRONICS AND COMMUNICATION
ENGINEERING

S4 ECE (2021-25BATCH)

ADD-ON COURSE REPORT

TITLE: FUNDAMENTALS IN PYTHON PROGRAMMING

CODE – ADEC401

The Electronics & Communication Engineering department of Vimal Jyothi Engineering College conducted an add-on course for fourth-semester ECE students aimed at skill development. The course was held from 10th March to 14th March 2023 and aimed to equip students with practical knowledge and experience in the field of Python programming.

The course, which covered fundamental concepts in Python programming and their practical implementation was led by Mr. Akesh and Mr. Jayasurya of Quest Innovative Solutions and was attended by 54 fourth-semester ECE students from Vimal Jyothi Engineering College.

On the first day of the add-on course, a range of topics were covered, primarily focused on the fundamentals of Python programming. The day began with an introduction to Python and a discussion of its advantages and disadvantages compared to other programming languages such as R. The session also covered the popular Integrated Development Environments (IDEs) for Python and provided guidance on installing Python and Visual Studio Code. Students were then introduced to the concept of variables, including how to declare them and the automatic assignment of data types in Python. The session also covered collections of variables and basic data structures such as strings, including strings as arrays, string length, checking if a string is in, and string slicing. Additionally, operators, including arithmetic and logical operators and Boolean operators, were introduced. Finally, the session concluded with an overview of lists, tuples, sets, and dictionaries, providing students with a solid foundation in Python programming fundamentals.

On the second day of the add-on course, the session focused on additional fundamentals of Python programming. The day began with an introduction to looping statements, including a discussion of what loops are and an overview of for-each loop and while loops. The session then moved on to conditional statements, including an explanation of what they are and a detailed look at the different types of conditional statements. Next, the session covered user-defined functions and lambda functions, including an explanation of what each is and how to use them. The day concluded with a session on file handling in Python, providing students with a foundation in this important aspect of Python programming.

On the third day of the Python workshop, participants were introduced to the basics of data science and data analysis using the Python programming language. The day started with

an overview of the Anaconda environment and how to install Jupiter Notebook for running Python code. The primary focus of the day was on the panda's library, which is a powerful data manipulation and analysis tool. Participants learned how to read and process data files using pandas, and how to perform various data cleaning tasks such as identifying and removing missing values and duplicates. They were also introduced to data exploration techniques using pandas, such as selecting, grouping, and sorting data.

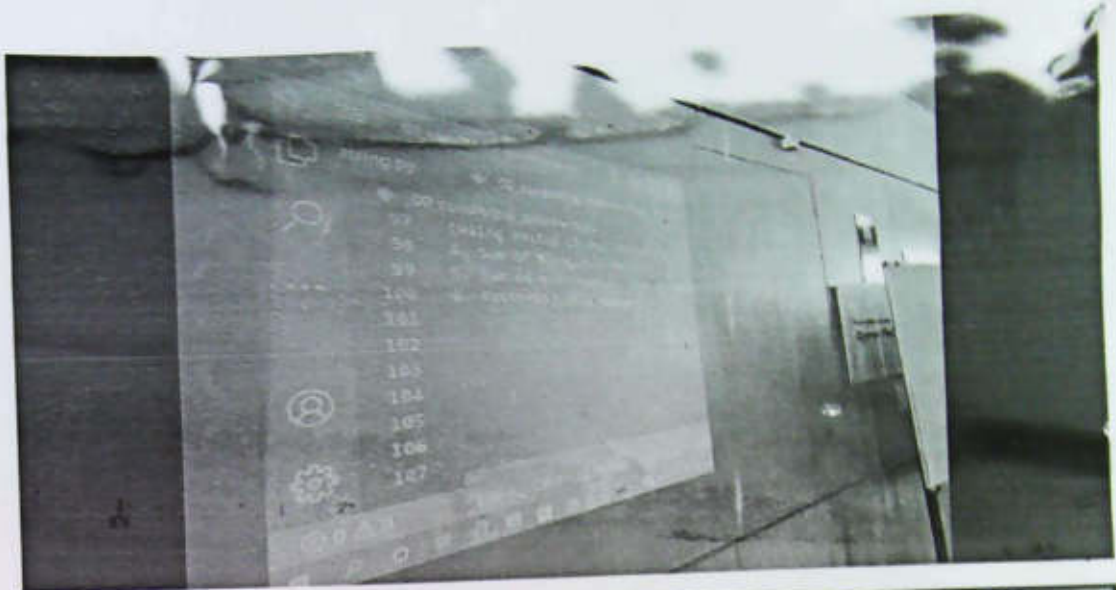
Additionally, the workshop covered the basics of working with NumPy arrays, which are an essential component of data analysis in Python. Participants learned how to create and manipulate arrays, perform operations on them, and use them for data analysis tasks.

Finally, the day concluded with an introduction to Matplotlib, a powerful visualization tool for creating charts, graphs, and other visual representations of data. Participants learned how to use Matplotlib to create basic plots and charts to display their data in a meaningful way. Overall, the day provided participants with a solid foundation in data analysis using Python and its various libraries.

On the fourth and fifth days of the Python course, participants were introduced to the basics of application development using Python. They were taught how to use the Python language to write scripts and programs, and how to create basic applications using various Python libraries. During these days, participants learned about important programming concepts such as variables, data types, conditionals, loops, and functions. They were also introduced to object-oriented programming in Python and how to create classes, objects, and methods. In addition, participants were introduced to different Python libraries that are commonly used in application development, such as Flask, Django, and Tkinter. They learned how to use these libraries to create web applications, GUI-based applications, and other types of applications. The practical hands-on approach of the course allowed participants to apply what they learned by working on various projects and exercises. By the end of the course, participants had gained a solid understanding of Python programming fundamentals and application development, which provided a strong foundation for further exploration and development in this area.

At the end of the Python workshop, feedback was collected from the participants to assess their experience and understanding of the material covered. Additionally, an assessment test was conducted to evaluate their proficiency in the language. The feedback and assessment results were overwhelmingly positive, with participants expressing satisfaction with the workshop and their increased knowledge of Python. Certificates were provided to students who completed the assessment and provided feedback. Overall, the response and performance of the participants were deemed to be excellent, indicating the success of the workshop and the effectiveness of the instruction provided.

PHOTOS







Python Programming for Data Science

FOR VIMAL JYOTHI ENGINEERING COLLEGE

Duration: 18 Hours

Day 1

- Why Python?
- Advantages and Dis-advantages of Python
- A comparison between R and Python
- Popular IDEs for Python

- Python Installation
 - Basic python installation
 - Python IDE installation _ Visual Studio Code

- Introduction to variables
 - Declaring variables in Python
 - The automatic assignment of data types to variables in Python
 - Collections of variables
 - Basic Data Structures

- Strings
 - Strings as array
 - String length
 - Check if is in
 - String Slicing

- Operators
 - Arithmetic and logical operator
 - Boolean operator

- Lists, tuples, sets and Dictionaries
 - Access Change and Add item to Lists, Tuples, Sets

Day 2

- Looping Statements
 - What are loops
 - for-each loop
 - while loop

- Conditional Statements
 - What are conditional statements
 - Different types of conditional statements

- User defined functions, lambda functions
 - User defined functions
 - Lambda functions

- File handling

Day 3

- Introduction to Data Science
- Installing Jupyter Notebook using Anaconda
- Pandas
- File Reading with pandas
- Function of pandas with files
- Pandas Data Frame
- Data Cleaning
- Finding Na Values
- Deleting Duplicates

- Data Exploration
- NpArrays
- Matplotlib basics

Application Development

- House price prediction using linear regression

Vimal Jyothi Engineering College Chemperi
Department of Electronics & Communication Engineering
Proposal for Add on course – S4 ECE (2021-25 Batch)
Tentative dates – 8-03-23 to 12-03-2023

Course offered By- Quest Innovative Solutions

Topic – Fundamentals in Python Programming

Total No. of Hours – 30 Hours

No. of students -54

Course fee – 30000 + 18% Tax. (35400/-)

Syllabus-Fundamentals in Python Programming

Day I

9.00 - 11.00	Why Python? Advantages and Dis-advantages of Python A comparison between R and Python Popular IDEs for Python
11.00 - 01.00	Python Installation Python IDE installation -Visual Studio Code Introduction to variables Declaring variables in Python The automatic assignment of data types to variables in Python Collections of variables Basic Data Structures
2.00 - 4.00	Strings Strings as array String length Check if is in String Slicing Operators Arithmetic and logical operator Boolean operator Lists, tuples, sets and Dictionaries Access Change and Add item to Lists, Tuples, Sets

Day II

9.00 - 11.00	Looping Statements What are loops
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	for-each loop while loop
11.00 - 01.00	Conditional Statements What are conditional statements Different types of conditional statements
2.00 - 4.00	User defined functions, lambda functions User defined functions Lambda functions File handling

Day III

9.00 - 11.00	Introduction to Data Science Installing Jupyter Notebook using Anaconda Pandas File Reading with pandas Function of pandas with files
11.00 - 01.00	Pandas Data Frame Data Cleaning Finding Na Values Deleting Duplicates
2.00 - 4.00	Data Exploration NpArrays Matplotlib basics

Day IV

9.00 - 4.00	Application Development Using Python
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Day V

9.00 - 4.00	Application Development Using Python
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Curriculum Prepared by

Mr. Vinod J Thomas

Mr. Manoj K C

Ms. Jerrin Yomas

Timestamp	Score	Name of the Student	REGISTRAR NUMBER OF THE STUDENT	1. Overall, how would you rate this Training useful to you?	1. Overall, how would you rate the workshop? [Are the Lectures interesting?]	1. Overall, how would you rate the Trainer involved in solving all your doubts?	1. Overall, how would you rate the workshop? [Are the topics covered completely?]	1. Overall, how would you rate the workshop? [Are You comfortable with Lab Sessions?]	2. Are You Satisfied with the Workshop?
3-20-2023 21:32:25		Jesiel Joseph	31	Excellent	Excellent	Excellent	Excellent	Excellent	Yes
3-20-2023 17:33:53		JIBIN VARGHESE	7525	Excellent	Good	Good	Good	Excellent	Yes
3-20-2023 23:29:22		Adarsh K B	7532	Good	Good	Good	Good	Good	Yes
3-20-2023 18:42:31		Sreelal P V	7839	Excellent	Excellent	Excellent	Excellent	Excellent	Yes
3-20-2023 16:15:09		Theertha suni	7881	Excellent	Excellent	Excellent	Excellent	Excellent	Yes
3-20-2023 17:42:51		Sidharth C	Lvm21ec052	Excellent	Excellent	Excellent	Excellent	Excellent	Yes
3-20-2023 17:46:45		VishnuPriya M P	LVM21EC005	Excellent	Excellent	Excellent	Excellent	Excellent	Yes
3-20-2023 17:47:07		Samvedh Vivek	SCT21EC088	Good	Good	Good	Good	Average	Yes
3-20-2023 17:55:22		Ashinav Prakash	Vm21ec001	Good	Good	Good	Good	Good	Yes
3-20-2023 18:13:57		Ashinav Sujith	Vm21ec004	Good	Good	Good	Good	Good	Yes
3-20-2023 18:55:02		Ashinav Sujith	Vm21ec002	Good	Good	Good	Good	Good	Yes
3-20-2023 18:08:10		Ashinav Sujith	Vm21ec004	Good	Good	Good	Good	Good	Yes
3-20-2023 22:24:10		Ashinav Sujith	Vm21ec004	Good	Good	Good	Good	Good	Yes
3-20-2023 16:31:05		Ashinav Sujith	Vm21ec005	Excellent	Excellent	Excellent	Excellent	Excellent	Yes
3-20-2023 17:29:22		Ashinav Sujith	Vm21ec006	Excellent	Excellent	Excellent	Excellent	Excellent	Yes
3-20-2023 17:49:12		Ashinav Sujith	Vm21ec007	Excellent	Excellent	Excellent	Excellent	Excellent	Yes
3-20-2023 17:46:29		Ashinav Sujith	Vm21ec008	Good	Good	Good	Good	Good	Yes
3-20-2023 16:15:30		Ashinav Sujith	Vm21ec009	Good	Good	Good	Good	Good	Yes
3-20-2023 17:41:01		Ashinav Sujith	Vm21ec010	Excellent	Excellent	Excellent	Excellent	Excellent	Yes
3-21-2023 8:23:53		Ashinav Sujith	Vm21ec011	Good	Good	Good	Good	Good	Yes
3-20-2023 23:03:46		Ashinav Sujith	Vm21ec012	Good	Good	Good	Good	Good	Yes
3-21-2023 6:43:21		Ashinav Sujith	Vm21ec013	Good	Good	Good	Good	Good	Yes
3-20-2023 19:03:31		Ashinav Sujith	Vm21ec014	Good	Good	Good	Good	Good	Yes
3-20-2023 23:28:26		Ashinav Sujith	Vm21ec015	Good	Good	Good	Good	Good	Yes
3-20-2023 20:30:20		Ashinav Sujith	Vm21ec016	Average	Average	Average	Average	Average	Yes
3-20-2023 18:23:49		Ashinav Sujith	Vm21ec017	Excellent	Excellent	Excellent	Excellent	Excellent	Yes
3-20-2023 16:29:27		Ashinav Sujith	Vm21ec018	Good	Good	Good	Good	Good	Yes
3-20-2023 17:50:37		Ashinav Sujith	Vm21ec019	Good	Good	Good	Good	Good	Yes
3-20-2023 16:28:53		Ashinav Sujith	Vm21ec020	Good	Good	Good	Good	Good	Yes
3-20-2023 17:46:50		Ashinav Sujith	Vm21ec021	Good	Good	Good	Good	Good	Yes
3-20-2023 23:44:55		Ashinav Sujith	Vm21ec022	Good	Good	Good	Good	Good	Yes
3-20-2023 16:29:00		Ashinav Sujith	Vm21ec023	Good	Good	Good	Good	Good	Yes
3-20-2023 21:03:40		Ashinav Sujith	Vm21ec024	Good	Good	Good	Good	Good	Yes
3-20-2023 16:37:55		Ashinav Sujith	Vm21ec025	Good	Good	Good	Good	Good	Yes
3-20-2023 18:10:33		Ashinav Sujith	Vm21ec026	Good	Good	Good	Good	Good	Yes
3-20-2023 19:55:24		Ashinav Sujith	Vm21ec027	Good	Good	Good	Good	Good	Yes
3-20-2023 19:53:13		Ashinav Sujith	Vm21ec028	Good	Good	Good	Good	Good	Yes
3-20-2023 18:23:21		Ashinav Sujith	Vm21ec029	Good	Good	Good	Good	Good	Yes
3-20-2023 17:31:21		Ashinav Sujith	Vm21ec030	Good	Good	Good	Good	Good	Yes
3-20-2023 17:46:12		Ashinav Sujith	Vm21ec031	Good	Good	Good	Good	Good	Yes
3-20-2023 16:53:38		Ashinav Sujith	Vm21ec032	Good	Good	Good	Good	Good	Yes
3-20-2023 17:40:46		Ashinav Sujith	Vm21ec033	Good	Good	Good	Good	Good	Yes
3-20-2023 18:25:38		Ashinav Sujith	Vm21ec034	Good	Good	Good	Good	Good	Yes
3-20-2023 18:02:19		Ashinav Sujith	Vm21ec035	Good	Good	Good	Good	Good	Yes
3-20-2023 16:38:47		Ashinav Sujith	Vm21ec036	Good	Good	Good	Good	Good	Yes
3-20-2023 18:08:04		Ashinav Sujith	Vm21ec037	Good	Good	Good	Good	Good	Yes
3-20-2023 16:15:13		Ashinav Sujith	Vm21ec038	Good	Good	Good	Good	Good	Yes

Vimal Jyothi Engineering College, Chemperi

Dept.of ECE

S4 ECE Add on course-Fundamentals in Python

Attendance-10/03/2023

Sl.No	RegisterNumber	Name	Signature	FN	AN
1	VML21EC001	Abhinav Prakash			
2	VML21EC002	Abhinav Sujith			
3	VML21EC003	Adarsh K B			
4	VML21EC004	Aeibel Tomy			
5	VML21EC005	Ahammed Sinan Muhammed			
6	VML21EC006	Ajaynath P			
7	VML21EC007	Akarsh Kc			
8	VML21EC008	Alanta George			
9	VML21EC009	Amal Sony			
10	VML21EC010	Amith Vinesh			
11	VML21EC011	Amrutha A Nair			
12	VML21EC012	Ananya K			
13	VML21EC013	Angel Mary			
14	VML21EC014	Ann Mariya Chacko			
15	VML21EC015	Anold Tomy			
16	VML21EC016	Anukrishna P V			
17	VML21EC017	Arya Alakkandy			
18	VML21EC018	Aswin P			
19	VML21EC019	Belfin Baby			
20	VML21EC020	Ben Augustine			
21	VML21EC021	Chandana C Aneesh			
22	VML21EC022	Devika R			
23	VML21EC023	Dishna Shareej			
24	VML21EC024	Gayathri O			
25	VML21EC025	Harinandh Sudheer			
26	VML21EC026	Harsha.L			
27	VML21EC027	Indraneel.a			

			FN	AN
28	VML21EC028	Ivin Joseph Rajesh	<i>Ivin Joseph Rajesh</i>	<i>Ivin Joseph Rajesh</i>
29	VML21EC029	Jesna Maria	<i>Jesna Maria</i>	<i>Jesna Maria</i>
30	VML21EC030	Jessay Jose Antony		
31	VML21EC031	Jestel Joseph	<i>Jestel Joseph</i>	<i>Jestel Joseph</i>
32	VML21EC032	Jibin Varghese	<i>Jibin Varghese</i>	<i>Jibin Varghese</i>
33	VML21EC033	Jishnu Prakash K K	<i>Jishnu Prakash K K</i>	<i>Jishnu Prakash K K</i>
34	VML21EC034	K Amith Babu	<i>K Amith Babu</i>	<i>K Amith Babu</i>
35	VML21EC035	Manu Roy	<i>Manu Roy</i>	<i>Manu Roy</i>
36	VML21EC036	Martin Reju	<i>Martin Reju</i>	<i>Martin Reju</i>
37	VML21EC037	Midhun Madhav M	<i>Midhun Madhav M</i>	<i>Midhun Madhav M</i>
38	VML21EC038	Muhammad Saleeth	<i>Muhammad Saleeth</i>	<i>Muhammad Saleeth</i>
39	VML21EC039	Muhammed Aadil Ashraf	<i>Muhammed Aadil Ashraf</i>	<i>Muhammed Aadil Ashraf</i>
40	VML21EC040	Navya.t	<i>Navya.t</i>	<i>Navya.t</i>
41	VML21EC041	Neha.m	<i>Neha.m</i>	<i>Neha.m</i>
42	VML21EC042	Rana Noufal	<i>Rana Noufal</i>	<i>Rana Noufal</i>
43	VML21EC043	Rithwik M R	<i>Rithwik M R</i>	<i>Rithwik M R</i>
44	VML21EC044	Sayand Shine K	<i>Sayand Shine K</i>	<i>Sayand Shine K</i>
45	VML21EC045	Sebastian Joseph	<i>Sebastian Joseph</i>	<i>Sebastian Joseph</i>
46	VML21EC046	Soorya M S	<i>Soorya M S</i>	<i>Soorya M S</i>
47	VML21EC047	Sreelal P V	<i>Sreelal P V</i>	<i>Sreelal P V</i>
48	VML21EC048	Theertha Sunil	<i>Theertha Sunil</i>	<i>Theertha Sunil</i>
49	VML21EC049	Vaishnavi E	<i>Vaishnavi E</i>	<i>Vaishnavi E</i>
50	VML21EC050	Vishakh Sasi	<i>Vishakh Sasi</i>	<i>Vishakh Sasi</i>
51	VML21EC051	Vismaya C	<i>Vismaya C</i>	<i>Vismaya C</i>
52	LVML21EC052	Sidharth C	<i>Sidharth C</i>	<i>Sidharth C</i>
53	LVML21EC053	Vishnupriya M P	<i>Vishnupriya M P</i>	<i>Vishnupriya M P</i>
54	SCT21EC088	Samved Vivek		

Vimal Jyothi Engineering College, Chemperi

Dept. of ECE

S4 ECE Add on course-Fundamentals in Python

Attendance-14/03/2023

Signature

Sl.No	Register Number	Name	Signature	Signature
1	VML21EC001	Abhinav Prakash		AN
2	VML21EC002	Abhinav Sujith		
3	VML21EC003	Adarsh K B		
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25	VML21EC025	Harinandh Sudheer		
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27	VML21EC027	Indraneel.a		

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35	VML21EC035	Manu Roy		
36	VML21EC036	Martin Reju		
37	VML21EC037	Midhun Madhav M		
38	VML21EC038	Muhammad Saleeth		
39	VML21EC039	Muhammed Aadil Ashraf		
40	VML21EC040	Navya.t		
41	VML21EC041	Neha.m		
42	VML21EC042	Rana Noufal		
43	VML21EC043	Rithwik M R		
44	VML21EC044	Sayand Shine K		
45	VML21EC045	Sebastian Joseph		
46	VML21EC046	Soorya M S		
47	VML21EC047	Sreelal P V		
48	VML21EC048	Theertha Sunil		
49	VML21EC049	Vaishnavi E		
50	VML21EC050	Vishakh Sasi		
51	VML21EC051	Vismaya C		
52	LVML21EC052	Sidharth C		
53	LVML21EC053	Vishnupriya M P		
54	SCT21EC088,	Samved Vivek		

Vimal Jyothi Engineering College, Chemperi

Dept. of ECE

S4 ECE Add on course-Fundamentals In Python

Attendance-13/03/2023

Signature

Sl.No	RegisterNumber	Name	Signature	AN
1	VML21EC001	Abhinav Prakash	[Signature]	[Signature]
2	VML21EC002	Abhinav Sujith	[Signature]	[Signature]
3	VML21EC003	Adarsh K B	[Signature]	[Signature]
4	VML21EC004	Aeibel Tomy	[Signature]	[Signature]
5	VML21EC005	Ahammed Sinan Muhammed	[Signature]	[Signature]
6	VML21EC006	Ajaynath P	[Signature]	[Signature]
7	VML21EC007	Akarsh Kc	[Signature]	[Signature]
8	VML21EC008	Alanta George	[Signature]	[Signature]
9	VML21EC009	Amal Sony	[Signature]	[Signature]
10	VML21EC010	Amith Vinesh	[Signature]	[Signature]
11	VML21EC011	Amrutha A Nair	[Signature]	[Signature]
12	VML21EC012	Ananya K	[Signature]	[Signature]
13	VML21EC013	Angel Mary	[Signature]	[Signature]
14	VML21EC014	Ann Mariya Chacko	[Signature]	[Signature]
15	VML21EC015	Anold Tomy	[Signature]	[Signature]
16	VML21EC016	Anukrishna P V	[Signature]	[Signature]
17	VML21EC017	Arya Alakkandy	[Signature]	[Signature]
18	VML21EC018	Aswin P	[Signature]	[Signature]
19	VML21EC019	Belin Baby	[Signature]	[Signature]
20	VML21EC020	Ben Augustine	[Signature]	[Signature]
21	VML21EC021	Chandana C Aneesh	[Signature]	[Signature]
22	VML21EC022	DEVIKAR	[Signature]	[Signature]
23	VML21EC023	Dishna Sharee	[Signature]	[Signature]
24	VML21EC024	Gayathri O	[Signature]	[Signature]
25	VML21EC025	Harinandh Sudheer	[Signature]	[Signature]
26	VML21EC026	Harsha.L	[Signature]	[Signature]
27	VML21EC027	Indrancel.a	[Signature]	[Signature]

$$C_1 = 0.01P_1^2 + 18P_1 + 20 \text{ Rs/hr}$$

14 C05 L3

11

A 2 bus system consist of two power plants connected by a transmission line. When a power of 120 MW is transmitted from plant 1 to load near to plant 2, a loss of 16.425 MW is occurred. Determine the optimal scheduling of plants and load demand, if cost of received power is 36 Rs/MWhr. The cost curve characteristics of the two plants are [Pr.2.1.2]

			Signature	
			FN	AN
28	VML21EC028	Ivin Joseph Rajesh		
29	VML21EC029	Jesna Maria		
30	VML21EC030	Jessay Jose Antony		
31	VML21EC031	Jestel Joseph		
32	VML21EC032	Jibin Varghese		
33	VML21EC033	Jishnu Prakash K K		
34	VML21EC034	K Amith Babu		
35	VML21EC035	Manu Roy		
36	VML21EC036	Martin Reju		
37	VML21EC037	Midhun Madhav M		
38	VML21EC038	Muhammad Saleeth		
39	VML21EC039	Muhammed Aadil Ashraf		
40	VML21EC040	Navya.t		
41	VML21EC041	Neha.m		
42	VML21EC042	Rana Noufal		
43	VML21EC043	Rithwik M R		
44	VML21EC044	Sayand Shine K		
45	VML21EC045	Sebastian Joseph		
46	VML21EC046	Soorya M S		
47	VML21EC047	Sreelal P V		
48	VML21EC048	Theertha Sunil		
49	VML21EC049	Vaishnavi E		
50	VML21EC050	Vishakh Sasi		
51	VML21EC051	Vismaya C		
52	LVML21EC052	Sidharth C		
53	LVML21EC053	Vishnupriya M P		
54	SCT21EC088,	Samved Vivek		


EVENT PROPOSAL FORM

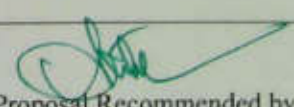


VIMAL JYOTHI
ENGINEERING COLLEGE

JYOTHI NAGAR, CHEMPERI - 670632, KANNUR D.T., KERALA
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1	Event type and Name	Add on course - " Robotics"
2	Date and time	18/09/2023 to 23/09/2023, 9.00AM to 4PM
3	Participants/audience	S7 ECE students (2020-24 Batch).
4	Venue	ECE department -Advanced communication engineering lab.
5	Objectives	To understand the fundamentals of Embedded systems and circuits
6	Expected outcomes	Students will be able to -gain practical experience in embedded systems and PCB. -gain the knowledge in microcontroller programming and python programming
7	Connected POs/PSOs	PO1, PO3, PO5, PO12
8	Resource requirements	Course fee - Rs.35000
9	Any other Relevant Information	Resource Person/team - kathiru Santhi Kumar, Alisons Informatics(P) Ltd, Kannur
10	Responsible Persons	Ms.Lekshmy S AP, ECE Mr. Binil Kumar K , AP, ECE MR. Adarsh K S, AP, ECE
11	Department	Electronics & Communication Engineering Department, VJEC.


Proposal prepared by
Lekshmy S
Assoc. Prof ECE


Proposal Recommended by
Dr. Anto Sahaya Dhas
Professor & Head, ECE Dept.

5 Days Robotics Session Wise Breakup

Days	Modules	Topics	Total Hours
DAY 1	1. Introduction to Embedded System and Embedded Circuits	1.1 embedded system & Example	3Hr Theory
		1.2 microprocessors & microcontrollers	
		1.3 RAM & ROM	
		1.4 Transducers & Sensors	
		1.5 CMOS Logic and TTL Logic	
		1.6 Discussion on 5V Power Supply	
		1.7 NOT gate using Transistor	
		1.8 Transistor as Switch	
		1.9 Buzzer circuit using Transistor.	
		1.10 Relay circuit using Transistor.	
		1.11 IR Module using transistor.	
		1.12 Motor Driver (L293D).	
	2. Circuit Designing On Bread Board	2.1 Design and Setup a 5V DC Power Supply using Bridge Rectifier.	3Hr Practical
		2.2 Verify NOT gate using Transistor circuit.	
		2.3 Implement a moisture sensor circuit using transistor	
		2.4 Design a Buzzer Module and verify the circuit.	
		2.5 Design a Relay module and control the 230V AC supply of a Lamp.	
		2.6 Implement an IR module using Transistors.	
		2.7 Build a circuit using L293D to rotate a DC motor in Clockwise and Anticlockwise.	

DAY 2	3. Microcontroller Programming session1	3.1 ATmega328 Pin out and Discussion	3Hr Practical
		3.2 Study of LED Blinking program.	
		3.3 Study Microcontroller programming to read a switch status	
		3.4 Read IR module status.	
		3.5 Implement IR controlled Lamp	
		3.6 Study Microcontroller programming to read a LDR sensor status	
		3.7 Implement an automatic streetlight based on Light intensity.	
		3.8 Study Microcontroller programming to Display a Word on LCD.	
		3.9 Measure Light intensity value and Display it on LCD.	
		3.10 Transmit and receive Data serially through UART.	
		3.11 Rotate Motor Clockwise and Anticlockwise Using Android Application.	
4. Build a Bluetooth controlled and Line Following Robot	4.1 Write program to control the movement of vehicle through android application	3Hr Practical	
	4.1 Test the program on the real RC Car		
	4.1 Write program for line following Robot		
	4.2 Test the program on the real Line following Robot		

DAY 3	5. Android Application Development	5.1 Make an account in MIT app Inventor	3Hr
		5.2 Familiarization of MIT App Designing and Block Method coding.	
		5.3 Build a basic camera application and testing on an android phone	
		5.4 familiarize Speech recognition and Text to Speech Module	
		5.5 Familiarize TinyWebDB for Internet based data sharing.	
		5.6 Testing the developed application	
	6. Microcontroller Programming Session2	6.1 Interfacing Ultrasonic sensor with microcontroller.	3Hr
		6.2 Display the value of Ultrasonic sensor on LCD	
		6.3 send Ultrasonic sensor value to android application	
		6.4 build Obstacle Avoidance robot.	
6.5 Build Voice controlled Robot			



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PROFICIENCY

Quest Innovative Solutions certifies that **Ms. Vaishnavi E (VML21EC049)**, 4th semester, B.Tech Electronics and Communication Engineering student of Vimal Jyothi Engineering College, Chemperi, Kannur has completed 5 days add-on course titled "**Fundamentals in Python Programming**" during the period from 10/03/2023 to 14/03/2023.

Chief Technology Officer



Centre Head

Date: 30/03/2023

Certificate No. CHN1112102706

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