Sir M Visvesvaraya Institute of Technology, Bengaluru-562 157

Department of Mechanical Engineering

<u>SUBMITTED TO THE PRINCIPAL:</u>

Date: 13/12/2021

Permission to organize three days student development programme during 03/01/2022 to 05/01/2022

Purpose /Justification of SDP: with respect to the above subject the following coordinators from Mechanical Engineering would like to organize 3 days SDP on **"Python Programming with Real time Industrial Applications"** in association with M/S Aqmenz Automation Pvt Ltd Bangalore.

The objective of this program is mainly to focus on training of Students to develop coding skills in python programming with hands on session.

This particular coding programming is required for Mechanical Engineering as a part of covering syllabus beyond the subject as well students will get benefitted in terms of knowledge and skills.

PROFESSOR & HEAD
Department of Mechanical Engineering
Sir M. Visvesvaraya Institute of Techonolgy
Bengaluru-562 157

Department of Mechanical Engineering
Sir M. Visvesvaraya Institute of Technology, Bengaluru 56 2157

Ref No.: SMVIT/ME/ SDP   /2022-2023

Date: 05/12/2022

REPORT ON 3 DAYS STUDENT DEVELOPMENT PROGRAM

Three days students Development Program were successfully conducted in the Department of Mechanical Engineering from 03/01/2022 to 05/01/2022 in association with M/s Aqmenz Automation Pvt. Ltd., Bengaluru. Day wise report of SDP is as follows

Dignitaries on the Dias:
Dr K S Shanmukharadhya, Head of the Department
Mr. Mohan Shamanna, Resource Person
Mr. Mohamed Azar, Resource Person
The student Coordinator Mr. Bogi Deepak, USN:1MV18ME023 gave the welcome address and extended warm welcome to all the dignitaries present & invited them to the dias with a banquet of flowers.
He also welcomed all the students' participants from the department of mechanical Engineering.
The resource Person Mr. Mohammed Azar addressed the participants about the program in brief.
The head of the department Dr K S Shanmukhardhya, addressed the students to make the best utilization of 3 days' workshop and to gain the knowledge in terms of application of the programming tool 'Python'
Vote of thanks was given by the student coordinator Mr.Shridhar U Dameshwar Bhat, USN:1MV18ME083

3-Days SDP Poster

Content of the SDP:

Day-1 8.00AM to 6.00PM	Session begin after a short tea-break. Mr. Mohammed Azar, the trainer took over the dias. and gave the introduction about the python programming and basic concepts of it
	Introduction to python programming scope & importance of Coding
	Installation of the software 'ANKONDA'
	Brief Introduction about python Programming & Applications
12.45PM to 1.30PM	Lunch Break
	Basic concepts of Python data types & Example programs
	Functions concepts & Application programs
	Looping in Python with Industrial Examples
	Lambda Function and Examples

Day-2 8.00AM to 6.00PM	
	Module concept used in python
	Pre-built Modules - time, math, random
	Project: Robotic Kinematic Calculations using Python
	Exceptional Handling with 'try-except'
12.45PM to 1.30PM	Lunch Break
	Structured Data Types – Lists, Tuples & Dictionaries. Introduction to Python Kit – ESP32 Microcontroller Board
	Pin Description and Peripherals interfaces introduction and usage
	Simple led blink program using python microcontroller interface

Day-3 8.00AM to 6.00PM	
	Industrial Application Projects, Bottle Sorting project in Bottle Industry
	Staircase Application Project, Sequential Motor Control Project
	Tea- Break
	Colour Mixing Paint Industry Project, Timer and counters programming using Python
	Packing Automation in Industry Projects
12.45PM to 1.30PM	Lunch Break
	Introduction to Machine Learning, Python Libraries - Numpy, Pandas, Matplotlib usage,
	Supervised and Unsupervised machine Learning, Test/Quiz
5.30PM to 6.15PM	Valedictory Function
	The valedoctory function started at 5.30PM @ ME seminar hall. The

anchoring was done by the student coordinators. The HOD was the chief guest for the programme. The program involved, inviting the Chief guest & faculty coordinator to the dias. Three days summary of the workshop was briefed by the student Mr. Varun B. Feedback form the students about their exposure in these 3 days programme was taken. The Hod addressed the students about worthiness of the workshop that they under went in these 3 days and thanked the management & the principal for their support extended and also participants who shown interest and came forward for participation. Finally the HOD presented the payment of Rs 17,500/- in cash to the Mr, Mohan Shamanna, the Founder & Mentor of Aqmenz Automation Pvt. Ltd. Online feedback is collected from all the participants.

FEED BACK ON CO's

Sl.No	CO's
1	Able to understand, learn & apply the basics programming concepts of Python programming tools
2	Ability to apply the python codding skills on hardware microcontroller and solve industry related applications
3	Summarization of concepts of machine learning and deep learning

Rating: 1- slightly   2- Moderately   3- Strongly

Sl. No.	USN	NAME OF THE STUDENT	Registration Fee (Rs 500/-	Semester & section
1	1MV16ME058	PAVAN KUMAR G M	500	VII-A
2	1MV17ME053	R CHANDAN	500	VII-A
3	1MV18ME001	ABHAY S	500	VII-A
4	1MV18ME008	AJITH BHANDARKAR	500	VII-A
5	1MV18ME026	CHILUKURI KAUSHIK VARDHAN	500	VII-A
6	1MV18ME406	DINESH KUMAR A	500	VII-A
7	1MV18ME050	MANDAPATI CHETHAN SREEKAR	500	VII-B
8	1MV18ME051	MEGHARAJA M D	500	VII-B
9	1MV18ME053	MUSTAFA TRUMBOO	500	VII-B
10	1MV18ME055	NADIMPALLI LAKSHMI NARAYANA	500	VII-B
11	1MV18ME056	P CHANDAN KRISHNA	500	VII-B
12	1MV18ME058	PARIKSHIT B R	500	VII-B
13	1MV18ME072	SAI GANESH D	500	VII-B

14	1MV18ME079	SHASHANK S TEGGIHALLI	500	VII-B
15	1MV18ME081	SHASHIDHAR N	500	VII-B
16	1MV18ME092	VARUN B	500	VII-B
17	1MV19ME404	HARSHITH J	500	VII-B
18	1MV19ME411	RAKSHITH GOWDA J	500	VII-B
19	1MV19ME011	B S SRI SUMUKHA	500	V-A
20	1MV19ME012	CHANDAN B S	500	V-A
21	1MV19ME015	DHANUSH M P	500	V-A
22	1MV19ME017	DINAKAR M K	500	V-A
23	1MV19ME023	HITHESH R	500	V-A
24	1MV19ME024	HRITHIK B N	500	V-A
25	1MV19ME025	JAYASURYA K S	500	V-A
26	1MV19ME033	MOHAMMED YAHYA ADIL	500	V-A
27	1MV19ME066	RAVI B K	500	V-A
28	1MV19ME065	SURAJ A	500	V-B
29	1MV19ME068	V VIGNESH	500	V-B
30	1MV20ME406	KEERTHI D	500	V-B
31	1MV20ME404	EKANTH P MOHITHE	500	V-B
32	1MV20ME408	PREMSAGAR G	500	V-B
33	1MV20ME409	PUNEETH N	500	V-B
34	1MV20ME410	RAJATH H V	500	V-B
35	1MV20ME411	VAMSHI V	500	V-B

Online Feedback:

Name	USN	Rating 5=Excellent 4= Very Good 3= Good 2= Satisfactory 1= Poor	Comments
PAVAN KUMAR G M	1MV16ME058	4	Good
R CHANDAN	1MV17ME053	4	-
ABHAY S	1MV18ME001	5	This workshop was useful
AJITH BHANDARKAR	1MV18ME008	4	-
CHILUKURI KAUSHIK VARDHAN	1MV18ME026	5	No comments
DINESH KUMAR A	1MV18ME406	5	-
MANDAPATI CHETHAN SREEKAR	1MV18ME050	5	I guess my phobia towards coding will vanish after this
MEGHARAJA M D	1MV18ME051	5	Good
MUSTAFA TRUMBOO	1MV18ME053	5	good
NADIMPALLI LAKSHMI NARAYANA	1MV18ME055	4	It was very interesting
P CHANDAN KRISHNA	1MV18ME056	2	I'm interested in learning

Name	ID	Rating	Comment
PARIKSHIT B R	1MV18ME058	5	I would like to learn this language and apply it in industries
SAI GANESH D	1MV18ME072	5	I'm interested in learning
SHASHANK S TEGGIHALLI	1MV18ME079	4	Thanks for introducing this course
SHASHIDHAR N	1MV18ME081	4	.
VARUN B	1MV18ME092	3	-
HARSHITH J	1MV19ME404	4	Hope if I learn everything from basics it would be helpful
RAKSHITH GOWDA J	1MV19ME411	5	Good
B S SRI SUMUKHA	1MV19ME011	5	Good course
CHANDAN B S	1MV19ME012	4	Excellent
DHANUSH M P	1MV19ME015	5	I want the workshop at advanced level
DINAKAR M K	1MV19ME017	1	Not Interested
HITHESH R	1MV19ME023	5	No
HRITHIK B N	1MV19ME024	5	Yes
JAYASURYA K S	1MV19ME025	4	Good
MOHAMMED YAHYA ADIL	1MV19ME033	5	-
RAVI B K	1MV19ME066	4	.
SURAJ A	1MV19ME065	5	I need workshop
V VIGNESH	1MV19ME068	5	Nothing
KEERTHI D	1MV20ME406	5	Interested in learning python
EKANTH P MOHITHE	1MV20ME404	5	This workshop will help me to increase knowledge in coding field
PREMSAGAR G	1MV20ME408	5	Good
PUNEETH N	1MV20ME409	2	.
RAJATH H V	1MV20ME410	5	Excellent
VAMSHI V	1MV20ME411	4	-

Co-coordinators

HoD

Sir M. Visvesvaraya Institute of Technology, Bengaluru-562157

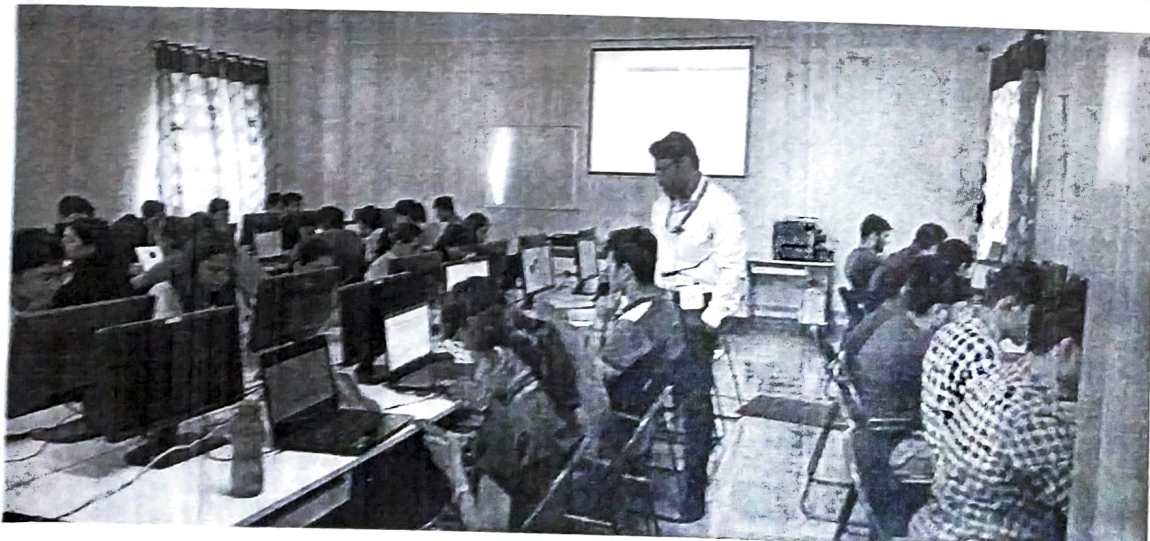## Department of Mechanical Engineering

Final Registered students List: Date: 19/01/2022

Sl. No.	USN	NAME OF THE STUDENT	Registration Fee (Rs 500/-	Semester & section	Certificate issued
1	1MV16ME058	PAVAN KUMAR G M	500	VII-A	
2	1MV17ME053	R CHANDAN	500	VII-A	
3	1MV18ME001	ABHAY S	500	VII-A	
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19/01/22
Dr. G Balakumar

HOD
PROFESSOR & HEAD
Department of Mechanical Engineering
Sir M. Visvesvaraya Institute of Techonology
Bengaluru-562 157

Aqmenz Automation Private Limited

INDOSKILL
FOR SKILL INDIA

SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
Approved by AICTE | Affiliated to VTU, Belagavi | Accredited by NBA
Bengaluru-562157, Karnataka

CERTIFICATE
O F C O M P L E T I O N

THIS CERTIFICATE IS PROUDLY PRESENT TO

VARUN B

Student of Mechanical Engineering bearing USN **1MV18ME092** has successfully completed **Skill Development Course** on "Python Programming and Industrial Applications" in association with **Aqmenz Automation Private limited** from 03.01.2022 to 05.01.2022.

CERTIFICATE ISSUE NO: AW/ 8089 / FY2022

Dr K S Shanmukharadhya
(Convener)
Professor & Head
Department of Mechanical Engineering

Dr V R Manjunath
PRINCIPAL (Organizing Chair)

Dr G Balakumar (Coordinator)
Associate professor
Department of Mechanical Engineering

Mr Mahaboob Basha D (Coordinator)
Associate professor
Department of Mechanical Engineering

Mr Mohan V S
Chief Executive Officer (CEO), AQMENZ
Automation Pvt. Ltd., Bengaluru - 560032

Mr Mohammed Azhar Hussain
Chief Technology Officer (CTO), AQMENZ
Automation Pvt. Ltd., Bengaluru - 560032

AQMENZ Automation Private Limited
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