1.2.2 Number of Add on /Certificate programs offered during the last five years

SUMMARY REPORT INDEX

Summary Report

Name of the Program:- Android

List of students enrolled:- 1

Duration of the Course:- 1.5 Month(1 june 2017- 12 july 2017)

Curriculum:

- Java Basics
- Android Basics
- Android UI
- Android Basics
- Hardware Modules

Assessment Procedure:-

1. Students who are enrolled for Android course are undergone for exam.
2. Exam was taken by Internshala.
3. For every week students have to submit some assignments.
4. Student have to secure 60 marks to pass in this exam.

Outcomes:

- After completion of this course students are able to design android app.
- How to connect frontend to backend.
- Students are able to design website using android app.

Attendance of Students:-

Sr. No	Name of the Student	Year
1	Rahul Kulkarni	BE Computer

Certificate:-

Summary Report

Name of the Program:- Vocational Training in ASP.net

List of students enrolled:- 1

Duration of the Course:- 1 Month(5 june 2017 to 1 july 2017)

Curriculum:

- CSS Code
- Html
- JavaScript
- Cascading Style Sheets (CCS)
- SQL and PHP

Assessment Procedure:-

1. Students who are enrolled for Web Devlopment course are undergone for exam.
2. Exam was taken by Internshala.
3. Each section has 25 marks. Out of 100 marks the exam was taken.
4. There are 6 levels of exam. L1 to L6.
5. Student have to secure 60 marks to pass in this exam.

Outcomes:

- Students are able to explain the architecture of Dot Net platform.
- Students can develop Simple Web form using various controls and implement the concept of master page.
- Students can develop interaction of front end with database using facilities of .NET platform.
- Students can deploy .Net Web Applications.

Attendance of Students:-

Sr. No	Name of the Student	Year
1	Komal Sinha	TE Computer

SIT/NAAC-2022/Criteria-1/1.2.2

Certificate:-

Summary Report

Name of the Program:- Web Development

List of students enrolled:- 1

Duration of the Course:- 1.5 Month(11 august 2017- 11 september 2017)

Curriculum:

- CSS Code
- Html
- JavaScript
- Cascading Style Sheets (CCS)
- SQL and PHP

Assessment Procedure:-

1. Students who are enrolled for Web Devlopment course are undergone for exam.
2. Exam was taken by Internshala.
3. Each section has 25 marks. Out of 100 marks the exam was taken.
4. Student have to secure 60 marks to pass in this exam.

Outcomes:

- After completion of this course students are able to design web site.
- How to connect frontend to backend.
- Students are able to design website using php.

List/ Attendance of Students:-

Sr. No	Name of the Student	Year
1	Rahul Kulkarni	2017-18

Certificate:-

INTERNSHALA TRAININGS

CERTIFICATE OF TRAINING
Web Development

Rahul Kulkarni from **Sinhgad Institute of Technology** has successfully undergone a six weeks online Winter training on Web Development. The training program consisted of HTML & CSS, Bootstrap, SQL and PHP modules and lasted for six weeks from 1st August, 2017 to 11th September, 2017.

We wish Rahul all the best for future endeavours.

Sarvesh Agrawal
Founder & CEO

Date of certification: 2017-09-26
Certificate Number : 80F4FA62-F63C-7C17-91DA-1672A4299861
For certificate authentication please visit https://trainings.internshala.com/verify_certificate

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Lonavala, Pune, 410401, Website: www.sinhgad.edu

Department of Computer Engineering

Report

Value Addition Program

Sem I Academic Year 2017-18

Summary

Sr. No.	Topic name	Duration	No.of students
1	C Programming	10 July to 09October, 2017 (40 Hrs)	37
2	Core Java	10 July to 09 October, 2017 (40 Hrs)	47
3	C++ Programming	10 July to 09 October, 2017 (40 Hrs)	16
	Total registered participants		100

Prof. S.G. Shaikh
Prof. P.V.Raut
VAP In-charge

Dr. S.D. Babar
Dept. of Computer Engineering -
HOD CE
S I T., Lonavla-410 401

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Value Addition Program
Sem I 2017-18

Date/Duration: 10/07/2017to 09/10/2017 (40 Hours each)

Venue: CRT Lab, Computer Department, SIT, Lonavala

Time: After College Hours (2-3 Hours)

Staff Co-ordinators: Salim Shaikh (COMP Departmental VAP Coordinator)

                            Ganesh Lohar (ENTC Departmental VAP Coordinator)

Event Conducted under: Department of Computer Engineering, SIT, Lonavala.

Activity Type: Value addition program

Target Group: All Students of Computer, E&TC, IT and Electrical Engg. Department

Purpose: To Improve Programming Skills,

                            For the Placement in software industries

Total strength: 100 students (SE+TE)

Conducted by: Global Infotech, Lonavala
Resource person: Prof. Yogesh Khandelwal
Brief Summary about Activity:

Students enrolled for C, C++ and Core Java Programming and undergone VAP. Attended sessions as per schedule and attempted test and assignments given by expert.They took active part in the course and updated their knowledge with the intention of better opportunities in placement process. At the end their performance is evaluated on the predefined criteria and awarded with certification. All students are also awarded with University of Pune certificate under the tie up of Global Infotech Lonavala and UOP.

C Programming:

C is the most popular programming language, C has many advantages:
- Powerful programming language: C is very efficient and powerful programming language, it is best used for data structures and designing system software.

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C++ Programming:

- C++is a general-purpose programming language. It has imperative, object-orientedand generic programming features, while also providing facilities for low-level memory manipulation.

- C++ has also been found useful in many other contexts, with key strengths being software infrastructure and resource-constrained applications, including desktop applications, servers (e.g. e-commerce,web search or SQL servers), and performance-critical applications (e.g. telephone switches or space probes).

Core Java:

- Java has evolved into more than just a language. It is a full platform with lots of standard APIs, open source APIs, tools, a big developer community with millions of developers etc. It may be a bit unclear what all this means, but you will get a better feeling for it when you start learning more about Java, and start working with it.

Outcome:

- Students understood the concepts of C, C++, Core Java Programming thoroughly and capable of doing programming on their own.

- TE students found it necessary to upgrade with software proficiency as per placement's current scenario. Students appreciated the efforts put by the trainer.

- All the participants are awarded with certification.

- Global Infotech is having tie up with University of Pune. The resource person conducted presentations of the students, evaluated, conducted test of all the participants.

- Students enrolled for core JAVA and C++ completed projects under different topics based on their interest and exhibited their work on 09/10/2017 at CRT lab in Computer department.

- Dr D.D. Chaudhary Vice Principal SIT, Lonavala along with Prof. S.D. Babar (HOD Computer Dept.) and Prof T.J. Parvat (HOD IT Dept,) inaugurated the exhibition and interacted with the students and guided them.

Photo Gallery: Value Addition Program Sem I 2017-18
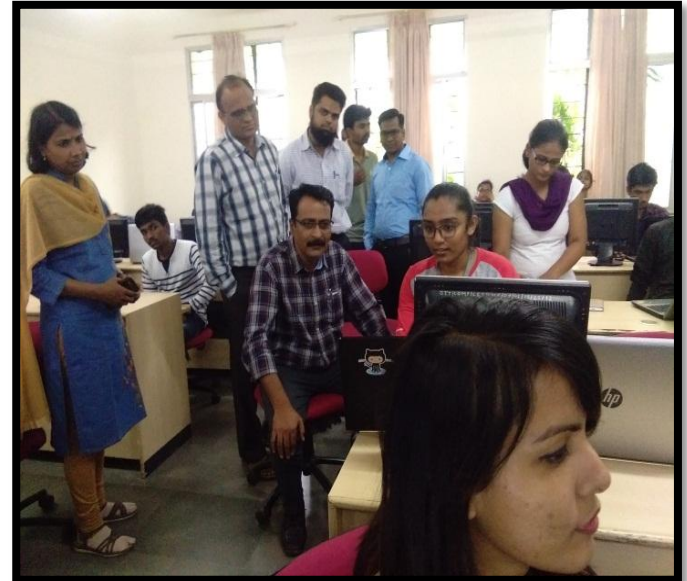
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(Affiliated to University of Pune and Approved by, AICTE, New Delhi.)
Kusgaon (Bk), Lonavala, Pune, 410401,
Website : www.sinhgad.edu

Department of Computer Engineering

Date: 11/07/2017

VAP NOTICE

SEM-I 2017-18

All Computer Engineering students here by informed that, those who are interested in value addition programs arranged by **Computer Department** and conducted by **Prof. Yogesh Khandelwal Global InfoTech, Lonavala**. Interested student can attend the Demo Session for C, C++ & Java. For this week VAP Scheduled is as follows.

Sr. No	VAP Topic	Day & Date	Time	Venue
1	C Programming	Tuesday 11-07-2017	5.15PM to 7.00PM	B-202 Lab E&TC Dept.
2	C++ Programming	Wednesday 12-07-2017	5.15PM to 7.00PM	CRT Lab. Comp. Dept
3	Core JAVA	Thursday 13-07-2017	5.15PM to 7.00PM	CRT Lab. Comp. Dept

For **any queries** feel free to contact **Prof. P.V.Raut (F-108) & Prof. S.G. Shaikh (F- 106).**

Prof. S.G.Shaikh

Prof. P.V.Raut

VAP co-ordinator

Dr.S.D.Babar

HOD CE

SE- A   T.E- A.

SE- B.   T.E- B₁ &B₂ -   ,B₃ -

SE -C   T.E -C.

E B1 -   TEB₄ -

Dept. Tel.: +91- 2114-304490/491/463, Office: +91-2114-304355, 304356, Telefax:+91-2114-278304
email:hodce.sit@sinhgad.edu

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Sinhgad Institute of Technology, Lonavala

27th July 2017

C Prog

Srno	Name	Dept	Div/Rollno	Fees Paid	20	21	21	29	
1	Shardul Srivastava	E & TC	A-33	500/-	Shardul	Shardul	Shardul	Shardul	Shardul
2	Amol Bansod	E & TC							
3	Mahendra Bhamre	E & TC	A-07	500/-	om	om	om	om	om
4	Krishna Mundala	IT							
5	Vishal Chaurasia	E & TC	B-45		Vik	Vik	Vik		
6	Soumya Verma	E & TC							
7	Vaishnavi Thombare	E & TC	C-42	500/-	Tombe	Tombe	Tombe	Tombe	
8	Ashi Singh	E & TC							
9	Bhargav Bhalala	E & TC	C-06	800/-	Bhalu	Bhalu	Bhalu	Bhalu	
10	Tushar Bhadane	E&TC IT	IT-66	500/-	Bhu	Bhu	Bhu	Bhu	Bhu
11	Rushikesh Barathe	E&TC IT		500/-					
12	Pallavi Bhogal	IT	IT-13		Bhu	Bhu	Bhu	Bhu	
13	Sarika Auti	E & TC							
14	Amardeep Kumar	E & TC	B-03	1000/-	Amy	Amy	Amy	Amy	
15	Vayam	E & TC							
16	Suraj Kute	E & TC	B-28		Kute	Kute	Kute		
17	Atharva Bhosale	E & TC	C-07	500/-	ABhosale	ABhosale	ABhosale	ABhosale	ABhosale
18	Saurav Sinha	E & TC	C-39	500/-	Saurav	Saurav	Saurav	Saurav	Saurav
19	Zawed Ansari	E & TC	A-45	500/-	Zawed	Zawed	Zawed		
20	Sonukumar Gupta	E & TC	C-52	500/-	Sonu	Sonu	Sonu	Sonu	Sonu
21	Ravikant Prakash	E & TC	B-33		Ravi	Ravi	Ravi	Ravi	
22	Nikhil Mishra	E & TC	A3-26	500/-	Nikhil	Nikhil	Nikhil	Nikhil	Nikhil
23	Istkar Ansari	E & TC	B-22	500/-	Istkar	Istkar			
24	Swadesh Bhunya	E & TC	C-47	500/-	Swadesh	Swadesh	Swadesh	Swadesh	Swadesh
25	Diwanyanshu Rajan	E & TC	C-27	500/-	Divyansh	Divyansh	Divyansh	Divyansh	
26	Avinash Kumar	E & TC	B-19		Avinash	Avinash	Avinash		
27	Amarjeet Kumar	E & TC							
28	Lalita Bhaskar	E & TC							
29	Kalpita Salunkhe	E & TC	36		Kalpita	Kalpita	Kalpita	Kalpita	Kalpita
30	Aishwarya Durge	IT	19		Durge		Durge	Durge	Durge
31	Vasundhararaje Tanpure	Comp		500/-			Tanpure	Tanpure	
32	Deep Shikha	Comp							

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Java Prog

Srno	Name	Dept	Div/Rollno	Fees Paid	18/7	19/7	25/7	26/7	29/7
1	Mahima Dongre	Comp	SE C-20						
2	Ketan Chaudhari	Comp	SE C-13						
3	Shivanshu Tripathi	Comp	SE C-48						
4	Jagtap Trupti	Comp	SE A-36						
5	Rahul Moar	Comp	SE B-02						
6	Deovrat Tiwari	Comp	SE C-16						
7	Amish Kumar	Mech	SE E-03						
8	Anay Singh	E & TC	SE A-05						
9	Pradnya Bhavsar	E & TC	SE A-01						
10	Vijeta Borkar	IT	TE -07						
11	Karina Milani	IT	TE-42						
12	Suraj Nikam	E & TC	TE C-36						
13	Kushraj Chaudhari	E & TC	TE B-07						
14	Suraj Pawar	E & TC	TE B-50						
15	Kiran Girase Girase	E & TC	BE B-17						
16	Kadam Maroti	E & TC	BE D-16						
17	Mangesh Gawade	E & TC	TE B-12						
18	Suraj Shewale	E & TC	TE B-47						
19	Sneha	E & TC	TE						
20	Amburé Indrajeet	Comp	TE A-02						
21	Ananta Wakde	Comp	TE B-61						
22	Nilesh Mahakulkar	Comp	TE B-15						
23	Sankalp Khwade	Comp	TE B-02						
24	Ishani Aryan	E & TC	TE B-17						
25	Shivani Vibhute	E & TC	TE A-54						
26	Harshada Yadav	Comp	TE B-71						
27	Nikhil Jaditkar	E & TC	TE B-20						
28	Omkar Khomane	IT	TE SI-32						
29	Kanish Malviya	Comp	SE A-45						
30	Shivam Pharkandkar	E & TC	TE A-40						
31	Bhagyesh Kulkarni	E & TC	TE C-28						
32	Vishwas Ransingh	IT	TE T-73						

68 Siddhant Bovhade   Comp SE C-12

69 Viraj Bhalekar   COMP TE A-21

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MiT
Maharashtra Information Technology

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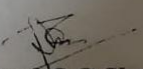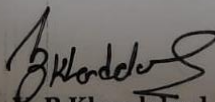
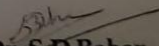### DEPARTMENT OF COMPUTER ENGG.

Value Addition Program

On

"C++ PROGRAMMING"

CERTIFICATE

This is to certify that *Harshada Yadav* has participated in the value addition program on *"C++"* from 15th July 2017 to 29th Sept 2017 conducted by Global Infotech Lonavala, secured *"A+"* Grade and completed the course satisfactorily.

Prof. S.G.Shaikh
VAP Coordinator

Prof. Y. B.Khandelwal
Global Infotech

Dr. S.D.Babar
Comp Head of Dept.

Grades: A+ - Excellent(80 to 100%) A- Very Good(65 to 79%) B-Good(50 to 64%) C-Fair(40 to 50%)

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SINHGAD INSTITUTE OF TECHNOLOGY, LONAVALA

DEPARTMENT OF COMPUTER ENGG.

Value Addition Program
On
"JAVA PROGRAMMING"

CERTIFICATE

This is to certify that *Sakshi Amrutkar* has participated in the value addition program on *"Core Java"* from 15th July 2017 to 29th Sept 2017 conducted by Global Infotech Lonavala, secured *"A+"* Grade and completed the course satisfactorily.

Prof. S.G.Shaikh
VAP Coordinator

Prof. Y. B.Khandelwal
Global Infotech

Dr. S.D.Babar
Comp Head of Dept.

Grades: A+ - Excellent(80 to 100%) A- Very Good(65 to 79%) B-Good(50 to 64%) C-Fair(40 to 50%)

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Summary Report

Name of the Program:- German Language

List of students enrolled:- 21

Duration of the Course:- 45 Hrs(5 July 2018 to 30 September2018)

Curriculum:

1. Speaking and Thinking

2. Self – discovery

3. Communication

4. Language Competence

5. Language and Culture

6. Language Changes

7. Connection with other areas of study

8. The Mother—language

Assessment Procedure:-

1. Students who are enrolled for german language course are undergone for exam.

2. Exam was taken for 4 sections reading, writing, listening and speaking.

3. Each section has 25 marks. Out of 100 marks the exam was taken.

4. There are 6 levels of exam. L1 to L6.

5. Student have to secure 60 marks to pass in this exam.

Outcomes:
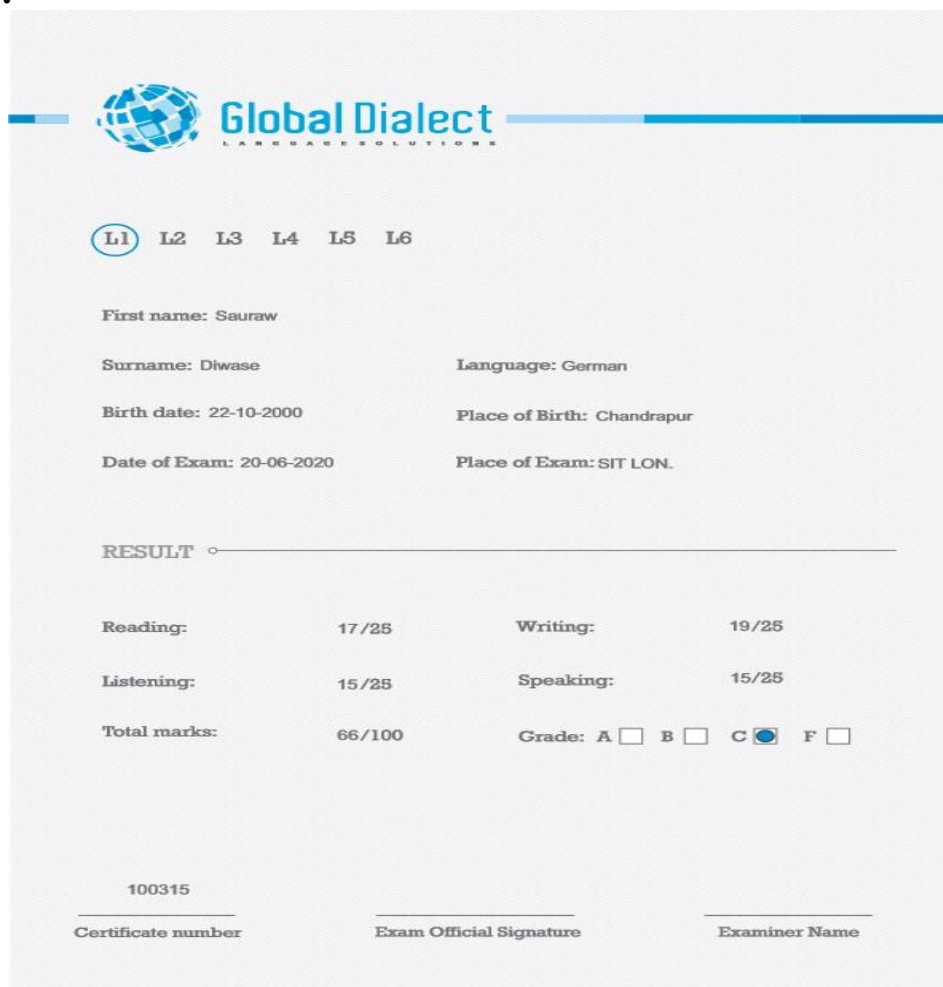
- Students can demonstrate linguistic proficiency in listening, speaking, reading and writing equivalent to ACTFL Advanced Mid; communicate effectively on a wide variety of present, past, and future events; exchange general information on topics outside their fields of interest; and handle a complication or unexpected turn of events

- Students evaluate major literary, intellectual or historical trends of the cultures of concentration.

- Students are able to identify an interdisciplinary or disciplinary understanding of cultural diversity

SIT/NAAC-2022/Criteria-1/1.2.2

- Students can apply appropriate research methods to a senior thesis or a capstone project in the language of specialization.

Attendance of Students:-

Sr. No	Name of the Student	Year
1	Aishwarya Gandigude	TE
2	Juilly Thakur	TE
3	Pushkar Deshmukh	SE
4	Virendrakumar Pawar	SE
5	Pranil Gadkari	TE
6	Rishhab Patil	TE
7	Chaitali Wagh	TE
8	Shubham Mate	TE
9	Akansha Kale	TE
10	Shivam Bhongade	TE
11	Shubham Sangme	TE
12	Shubham Halnore	TE
13	Siddhant Das	TE
14	Ninad Deo	TE
15	Shriniwas Ayachit	TE
16	Hrishikesh Kathe	TE
17	Kashiprasad	TE
18	Rangrajan Paralkar	TE
19	Swapnil Medhe	TE
20	Sarthak Singh	TE
21	Suprey bharambe	TE

Certificate:-

Global Dialect
LANGUAGE SOLUTIONS

L1 L2 L3 L4 L5 L6

First name: Sauraw

Surname: Diwase   Language: German

Birth date: 22-10-2000   Place of Birth: Chandrapur

Date of Exam: 20-06-2020   Place of Exam: SIT LON.

RESULT

Reading: 17/25   Writing: 19/25

Listening: 15/25   Speaking: 15/25

Total marks: 66/100   Grade: A ☐ B ☐ C ☉ F ☐

100315
_____   _____   _____
Certificate number   Exam Official Signature   Examiner Name

Summary Report

Name of the Program:- Python Programming

List of students enrolled:- 94

Duration of the Course:- 3 days (13 July 2017 to 15 July 2017)

Faculty Coordinator:-   Prof. Anuradha Kulkarni.

Prof. S. B. Ware

Curriculum:

- Python Basics
- Introduction to Python
- Running Python Programs
- Writing Python Code
- Data Types and Variables
- Using Numeric Variables
- Using String Variables

Assessment Procedure:-

1. Students who are enrolled for course are undergone for lesson quizzes and chapter tests.
2. For every week students have to submit some assignments.
3. Student have to secure 60 marks to pass in this exam.

Outcomes:

- After completion of this course students are able to write code in python.
- Student have learned different data types in python..
- Students are able to write and run python programs.
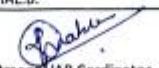
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Attendance of Students:-

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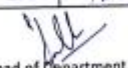
Title of VAP	PYTHON PROGRAMMING
Dates of VAP	13/7/2017 to 15/7/2017
Name of Trainer	MR.JAYANT MOHITE (WISDOM SPROUTS, PUNE)
Department	INFORMTION TECHNOLOGY

Sr.	Roll No	PRNo	Name of Student	13/7/2017	14/7/2017	15/7/2017
1	1	716402496	ADHE SHRIKANT VISHWASRAO			
2	2	71640250F	AMBULGE PRIYANKA SHANKAR			
3	3	715437186	ANAND MOHAN			
4	4	71543723C	ANISH VIJAY PATIL			
5	5	71543724M	ANJALI BHATIA			
6	6	716402528	ARAKH AKSHAY SUNIL		YP	
7	7	716402531L	AWASARE SAGAR GANESH			
8	8	71543740C	AYUSH KUMAR			
9	9	71543669E	BAGADE SARIKA BALWANT			
10	10	716402541	BOLE SAMIKSHA SANJAY			
11	11	716402556	BORADE SATISH SHALIGRAM		YP	
12	12	71543802G	CHATTERJEE APARNA NIKHILESH			
13	13	71417879K	CHAUDHARR ANKIT ARUN			
14	14	71543841D	DHAMALE SWEJAL RATNAKANT			
15	15	71417931M	DIPAK DEVIDAS MESHRAM			
16	16	71417938J	DIVEKAR MATESH RAMESH			
17	17	71543856F	DIWAKAR ROHINI MOOLCHAND			
18	18	71640258M	DORLE GANESH RAMKISHAN		YP	
19	19	714179538	GADADE PALLAVI ASHOK			
20	20	71640259K	GAIKWAD SUMEDHA KIRTIPAL			
21	21	714179678	GANDHI SAMIDHA BHARAT			
22	22	71543899K	GHATE VEDANTI SANJAY			
23	23	71640260C	GOBADE BALU RAM			
24	24	71317968G	HIMANSHU SHEKHAR			
25	25	715439398	HOWAL ABHIJIT KUMAR			
26	26	71640261M	INGLE SACHIN DIPAK		YP	
27	27	71640268K	JADHAV PARAS GANGADHARRAO		YP	
28	28	716402634	JANBANDHU ASHUTOSH PRADIP		YP	
29	29	71640264F	KADAM SUMIT GOPALRAO			
30	30	71640265D	KAKADE MANGESH VASANTRAO			
31	31	716402668	KALBANDE SHIVAJI NANDKISHOR		YP	
32	32	71640267L	KALE MAHESH HARIBHAU		YP	
33	33	715439738	KALE VAIBHAV JAYSING			
34	34	715439508	KASHID ROHIT SANJAY			
35	35	71640268J	KHATALE AKSHAY GIRJAPPA			

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SINHGAD INSTITUTE OF TECHNOLOGY

Title of VAP	**PYTHON PROGRAMMING**	
Dates of VAP	13/7/2017 to 15/7/2017	
Name of Trainer	MR.JAYANT MOHITE (WISDOM SPROUTS,PUNE)	
Department	SKNSITS,INFORMTION TECHNOLOGY DEPT,LONAVALA	

Sr.	Roll No	PRNo	Name of Student	13/7/2017	14/7/2017	15/7/2017
36	36	71640269G	KHEDKAR PRANAY MILIND			
37	37	71640270L	KHODVE AKASHAVANI RAMDAS		4D	
38	38	71640271J	MESHRAM VAIBHAV PRAFULCHAND			
39	39	71418195B	MOKAL SHWETA GAUTAM			
40	40	71544114M	MUGALI ANKIT JAGDISH			
41	41	71544124J	NAGVEKAR MEGHAN SANTOSH			
42	42	71640272G	NARNAVARE ANAND PUNJARAM			
43	43	71640273E	NIKAM PRAJAKTA PRATAP			
44	44	71544170B	PATANGE CHANDARANI PRAKASH			
45	45	71640274C	PAWAR SHUBHAM GANESH			
46	46	71544227K	POKHARKAR KAILAS PRAKASH			
47	47	71543674M	POSHATWAR OMKAR SANJAY			
48	48	71544240G	PRASHANT SHARMA			
49	49	71544241E	PRATAPWAR SHWETA RAJENDRA			
50	50	71544284J	RAVI KUMAR SAH			
51	51	71318287D	ROHIT RAGHUNATH BORUDE			
52	52	71418445E	SAWANE SHUBHAM GOPALRAO			
53	53	71544338M	SHAIKH MOHAMMAD ZAHID MOHAMMAD SALIM			
54	54	71544346B	SHEHJAD IRFANBHAI VASHI		4D	
55	55	71544390H	SHUBHAM RAUT			
56	56	71544395L	SHUKLA ASHISH SHIVNARAYAN			
57	57	71640276K	SIDRAL AKSHAY VENKATESH			
58	58	71544404C	SINGH RAHUL PASHUPATI			
59	59	71544448E	SYED SAAD SYED AZHAR			
60	60	71640277H	TAPADIYA PAYAL RADHAKISAN			
61	61	71318438J	TIDKE DEEPAK VISHWANATH			
62	62	71544466C	TIWARI VISHAL LALCHAND			
63	63	71640278F	TODKARI NAGRAJ ARUN		4D	
64	64	71640279D	VIKHE ABHILASH PRAMOD			
65	65	71545511B	WALKE BASWARAJ SIDDHESHWAR			
66	66	71640280H	WANKHADE SANKET SATISH		4D	
67	67	71640281F	WAWRE MAHESH KHANDURAO			
68	68	71640256E	CHANDEL VISHAL.B.		4D	

Department STP Cordinator   Department VAP Cordinator   Head of Department

HEAD
Dept. of Information Technology
S. I. T., Lonavla-410 401.

Certificate:-

Summary Report

Name of the Program:- Programming, Data Structures and Algorithms using Python

Course Code- 106106145

List of students enrolled:- 48

Duration of the Course:- 60 Hours (8 Weeks)

Name of the Speaker:- Prof. Madhavan Mukund

Name of Faculty Coordinator:- Dr. M. S. Chaudhari

Curriculum:

This course is an introduction to programming and problem solving in Python. It does not assume any prior knowledge of programming. Using some motivating examples, the course quickly builds up basic concepts such as conditionals, loops, functions, lists, strings and tuples. It goes on to cover searching and sorting algorithms, dynamic programming and backtracking, as well as topics such as exception handling and using files. As far as data structures are concerned, the course covers Python dictionaries as well as classes and objects for defining user defined datatypes such as linked lists and binary search trees.

CONTENT-

Sr. No	Name of Module	Duration
1	Informal introduction to programming, algorithms and data structures via gcd, Downloading and installing Python, gcd in Python: variables, operations, control flow - assignments, condition-als, loops, functions.	Week 1
2	Python: types,	Week 2

	expressions, strings, lists, tuples | Python memory model: names, mutable and immutable values | List operations: slices etc| Binary search | Inductive function definitions: numerical and structural induction | Elementary inductive sorting: selection and insertion sort | In-place sorting	
3	Basic algorithmic analysis: input size, asymptotic, complexity,O() notation | Arrays vs lists | Merge sort | Quicksort | Stable sorting	Week 3
4	Dictionaries | More on Python functions: optional arguments, default values | Passing functions as arguments | Higher order functions on lists: map, lter, list comprehension.	Week 4
5	Exception handling |	Week 5

	Basic input/output | Handling files | String processing	
6	Backtracking: N Queens, recording all solutions | Scope in Python: local, global, nonlocal names | Nested functions | Data structures: stack, queue | Heaps.	Week 6
7	Abstract datatypes | Classes and objects in Python | "Linked" lists: find, insert, delete | Binary search trees: find, insert, delete | Height-balanced binary search trees.	Week 7
8	E-icient evaluation of recursive definitions: memoization | Dynamic programming: examples | Other programming languages: C and manual memory management | Other programming paradigms: functional programming	Week 8

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Assessment Procedure:-

1. Exam was taken in two sections- assignment and mcq exam.
2. Exam was taken by online mode. Final score is the certification score.
3. Passed Students are awarded with Certificate.

Outcomes:

- Students are able to understand important features of Data Structure and Algorithms.
- Students are able to write programs by using python language.

List /Attendance of Students:-

Sr. No	Name of the Student	Department
1	Abhishek Dilip Chourasia	Electrical Engineering
2	AKSHAT TIWARI	Electrical Engineering
3	Akshay Tonge	Electrical Engineering
4	Amish Kumar	Mechanical Engineering
5	Anushika Gupta	Information Technology
6	ASHISH TRIPATHI	Mechanical Engineering
7	ASHIRVAD GARG	Mechanical Engineering
8	Chetan sarswat	Electrical Engineering
9	Gaurav Pandita	Information Technology
10	Shubham Gupta	Computer Science and Engineering
11	SAURABH MAURYA	Computer Science and Engineering
12	Krishna Mundada	Computer Science and Engineering
13	Mahima Dongre	Information Technology

SIT/NAAC-2022/Criteria-1/1.2.2

14	Makrand Deshmukh	Computer Science and Engineering
15	Meethi Singh	Computer Science and Engineering
16	Siddhant Daulkar	Information Technology
17	MAHESH PATIL	Information Technology
18	Pawan Mantri	Information Technology
19	Pragati Kamble	Information Technology
20	RAHUL MOAR	Computer Science and Engineering
21	Rushikesh Gitaram Barhate	Electronics and Communication Engineering
22	Rohit Totlani	Computer Science and Engineering
23	Rohini Shingare	Computer Science and Engineering
24	RUTU DHOBE	Computer Science and Engineering
25	Saiganesh Venkatrao Nirale	Electrical Engineering
26	Sanket Shinde	Electronics and Communication Engineering
27	Shaiq	Information Technology
28	Siddesh Thorat	Information Technology
29	SHUBHAM WAGHMARE	Computer Science and Engineering
30	Swapnil Barhate	Information Technology
31	Swapnil Sanjay Nagare	Computer Science and Engineering
32	deovrat	Information Technology
33	Trupti Jagtap	Mechanical Engineering
34	Vivek Yadav	Mechanical Engineering
35	Yogesh Goyal	Mechanical Engineering
36	Rohit Kr Singh	Mechanical Engineering

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37	vicky kumar	Information Technology
38	Neelam Borse	Mechanical Engineering
39	Rushikesh Shashikant Shelke	Mechanical Engineering
40	Shirsath Shubhangi Sampat	Electrical Engineering

Certificate:-

Summary Report

Name of the Program:- Control Engineering

Course Code- 108106098

List of students enrolled:- 2

Duration of the Course:- 90 Hours (12 Weeks)

Name of the Speaker:- PROF. RAMKRISHNA PASUMARTHY

Name of Faculty Coordinator:- Dr. M. S. Chaudhari

Curriculum:

This course shall introduce the fundamentals of modeling and control of linear time invariant systems; primarily from the classical viewpoint of Laplace transforms and a brief emphasis on the state space formulation as well. The course will be useful for students from major streams of engineering to build foundations of time/frequency analysis of systems as well as the feedback control of such systems. The 11th module of the course will cover a detailed application of filter design in the field of navigation and human movement (gait). Students will be able to design their very own basic navigational system using inertial sensors and microcontrollers.

CONTENT-

Sr. No	Name of Module	Duration
1	Mathematical Modelling of Systems	Week 1
2	Laplace Transforms, transfer functions, block diagram representation.	Week 2
3	Block diagram reduction, Time response characteristics	Week 3
4	Introduction to stability, Routh Hurwitz stability	Week 4

	criterion.	
5	Root locus plots, stability margins	Week 5
6	Frequency response analysis: Nyquist stability criterion, Bode plots and stability margins in frequency domain	Week 6
7	Basics of control design, the proportional, derivative and integral actions	Week 7
8	Design using Root Locus	Week 8
9	Design using Bode plots	Week 9
10	Effects of zeros, minimum and non-minimum phase systems.	Week 10
11	State space analysis	Week 11
12	Design using State space	Week 12

Assessment Procedure:-

1. Exam was taken in two sections- assignment and mcq exam.
2. Exam was taken by online mode. Final score is the certification score.
3. Passed Students are awarded with Certificate.

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Outcomes:

- Students are able to understand important features of Control Engineering.
- Students are able to apply control engineering concepts to solve real world problems .

List/ Attendance of Students:-

Sr. No	Name of the Student	Department
1	Utkarsh raj	Computer Science and Engineering
2	Nikhil Patil	Information Technology

Certificate:-

Summary Report

Name of the Program:- Mechanism and Robot Kinematics

Course Code- 112105236

List of students enrolled:- 1

Duration of the Course:- 60 Hours (8 Weeks)

Name of the Speaker:- PROF. ANIRVAN DAS GUPTA

Name of Faculty Coordinator:- Dr. M. S. Chaudhari

Curriculum:

This course will be a foundation course in analysis of mechanisms and robots. After a brief introduction to the subject matter and terms, the audience will be taken from kinematic analysis of planar closed-loop chains to open loop chains. Under spatial kinematic chains, the analysis will cover closed-loop mechanisms, serial manipulators, and parallel manipulators. The course will dwell upon coordinate frames, Denavit-Hartenberg parametrization, coordinate transformations, direct and inverse kinematics, velocity and acceleration analysis, kinematic motion planning, singularities in kinematic chains, principle of virtual work and force analysis. The course will demonstrate various concepts by working out problems and exercises relevant to real life applications involving innovative mechanisms and robotic chains. The course is expected to help students and researchers in their basic understanding and use of kinematic analysis. This course will also pave way for more advanced courses on mechanism and robot dynamics and design.

CONTENT-

Sr. No	Name of Module	Duration
1	Introduction to Mechanisms and Robotics	Week 1
2	Displacement Analysis	Week 2
3	Velocity Analysis	Week 3
4	Acceleration Analysis	Week 4
5	Force Analysis	Week 5
6	Coordinate	Week 6

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	Transformation	
7	Spatial Mechanisms	Week 7
8	Kinematics of Serial Manipulators	Week 8

Assessment Procedure:-

1. Exam was taken in two sections- assignment and mcq exam.
2. Exam was taken by online mode. Final score is the certification score.
3. Passed Students are awarded with Certificate.

Outcomes:

- Students are able to understand important features of Mechanism and Robot Kinematics.
- Students are able to understand different types of analysis.

List/ Attendance of Students:-

Sr. No	Name of the Student	Department
1	Vaibhav Jalinder Moholkar	Electrical Engineering

Certificate:-

Roll No:NPTEL18ME18S3740843

To
SINHGAD INSTITUTE OF TECHNOLOGY
PUNE

No. of credits recommended by NPTEL:2

21/991

Score	Type of Certificate
>=90	Elite + Gold Medal
60-89	Elite
40-59	Successfully Completed the course
<40	No Certificate

Elite

NPTEL Online Certification
(Funded by the Ministry of HRD, Govt. of India)

This certificate is awarded to

VAIBHAV JALINDAR MOHOLKAR

for successfully completing the course

Mechanism and Robot Kinematics

with a consolidated score of **68** %
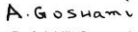
Online Assignments	18/25	Proctored Exam	49.5/75

Total number of candidates certified in this course: **59**

Prof. Anupam Basu
NPTEL Coordinator
IIT Kharagpur

**Feb-Mar 2018
(8 week course)**

Prof. Adrijit Goswami
Dean
Continuing Education, IIT Kharagpur

Indian Institute of Technology Kharagpur

swayam
FREE ONLINE EDUCATION

Roll No: NPTEL18ME18S3740843

To validate and check scores: http://nptel.ac.in/noc

Summary Report

Name of the Program:- Power System Engineering

Course Code- 108105104

List of students enrolled:- 19

Duration of the Course:- 90 Hours (12 Weeks)

Name of the Speaker:- PROF. RAMKRISHNA PASUMARTHY

Name of Faculty Coordinator:- Dr. M. S. Chaudhari

Curriculum:

This course is mainly for undergraduate third-year as well as fourth year Electrical Engineering students, which will introduceand explain the fundamental concepts in the field of electrical power system engineering. The basic concepts of underground cables, overhead line insulators, transient overvoltages and insulation coordination will be covered in detail. In addition to that, corona, sag and tension of transmission line will also be covered. In this course, distribution load flow, voltage stability analysis and application of capacitors in distribution networks will also be covered. Load frequency control of isolated and interconnected power system will be covered in depth. Unit commitment will also be covered. By the end of the course, the students should be able to gather high-quality knowledge of electrical power system engineering in the above mentioned fields.

CONTENT-

Sr. No	Name of Module	Duration
1	Overload line insulators	Week 1
2	Underground Cables	Week 2
3	Transient Overvoltages	Week 3
4	Corona	Week 4
5	Sag and Tension	Week 5
6	Distribution System Load Flow and voltage Stability	Week 6

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7	Approximate Method of Distribution System Ananlysis	Week 7
8	Applications of Capacitors	Week 8
9	Load Frequency Control	Week 9
10	Load Frequency Control contd..	Week 10
11	Unit Commitment	Week 11
12	Unit Commitment contd..	Week 12

Assessment Procedure:-

1. Exam was taken in two sections- assignment and mcq exam.
2. Exam was taken by online mode. Final score is the certification score.
3. Passed Students are awarded with Certificate.

Outcomes:

- Students are able to understand important features of power system engineering.
- Students are able to apply power system engineering concepts to solve real world problems.

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List/ Attendance of Students:-

Sr. No	Name of the Student	Department
1	patil priyanka annaso	Electrical Engineering
2	Lohkare Ambika Uddhav	Electrical Engineering
3	Patil Ankita Yashvant	Mechanical Engineering
4	SUBHASH DALAWI	Information Technology
5	Kadam Rohini Lotan	Mechanical Engineering
6	Kalpana Balasaheb Shelke	Mechanical Engineering
7	Khanderao Aapparao Jadhav	Electrical Engineering
8	Kadam Kirti Uday	Information Technology
9	Nihar	Computer Science and Engineering
10	Mansi Sunil Jadhav	Computer Science and Engineering
11	Nikhil Patil	Computer Science and Engineering
12	KADAM ONKAR RAJU	Information Technology
13	BIRADAR PALLAVI DILIP	Computer Science and Engineering
14	Patil Rajeshwari Baburao	Computer Science and Engineering
15	Pragati Uttam Mane	Information Technology
16	Puja Namdeo Kale	Information Technology
17	Puri Dnyaneshwari Shalikram	Information Technology
18	Suraj Santosh Somshetwar	Information Technology
19	yogita mahadev futane	Computer Science and Engineering

Certificate:-