Name of The Activity : Student development workshop on Scilab.			
Category of activity		**Co-curricular**	
Date:	22/03/2021 to 26/03/2021	**Participants profile:**	SE, TE , BE Electrical Students
Name of Co-ordinator (S)	1. Mr.U.R.Kothoke 2. Mr.R.V.Patil		
Guest/ Experts (If any)	**By Spoken Tutorial IIT Bombay**		
Objective for conducting activity	➢ To get knowledge about high level programming. ➢ To get knowledge about how to develop different web applications. ➢ About getting knowledge about how to develop 2D & 3D visualization . ➢ To get knowledge about how to develop different applications.		
Methodology	Through online video lectures		
Out Come	➢ Students are able to develop Mathematical functions using Scilab. ➢ Students are able to get knowledge about statistics using scilab. ➢ Students get knowledge about how to develop 2D & 3D visualization. ➢ By using Scilab workshop high level programming knowledge will get.		

Photos:

IQAC coordinator

Principal
K.C.E.SOCIETY'S
COLLEGE OF ENGG. &
MANAGEMENT,JALGAON

Jalgaon
425001

The Spoken Tutorial project

*Self explanatory - uses simple language

*Audio-video - uses multisensory approach

*Small duration - has better retention

*Learner-centered - learn at your own pace

*Learning by doing - learn and practice
 simultaneously

*Empowerment - learn a new FOSS

Target Group

*Students - High School and College

*Working professional - Software users,
 developers and trainers

*Research scholars

*Community at large

Workshops

The Spoken Tutorial Projects Team
conducts workshops on Scilab and other
FOSS using Spoken tutorials and gives
certificates to those who pass an online test.

For more details,please write to
contact@spoken-tutorial.org

Scilab is a major component of the FOSSEE
(Free and Open Source Software for Science
and Engineering Education) project,
funded by the
National Mission on Education through
Information and Communication Technology,
launched by the
Ministry of Human Resource Development,
Government of India

For Announcements:
http://scilab.in/cgi-bin/mailman/listinfo/announce

For Discussions:
http://scilabin/cgi-bin/mailman/listinfo/discuss

For more information contact us at:
contact@scilab.in

IIT Bombay

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Scilab is a cross-platform, free
(free of cost and free to distribute and modify)
and open source
numerical computational package.
http://scilab.in
http://scilab.org
http://fossee.in

National Mission on Education through
Information and Communication Technology
(NMEICT)
www.sakshat.ac.in

Funded by MHRD, Goverment of India

http://spoken-tutorial.org

Scilab is a cross-platform, free and open source numerical computational package and an easy-to-use, interpreted, high-level, matrix based programming language with a versatile inbuilt mathematical library.

It can be used for
- Graphing and data visualization
- Control
- Signal and Image processing
- Statistical analysis
- Fluid dynamics
- Linear algebra
- Numerical optimization
- Modeling and simulation of dynamical systems

Its capabilities can be extended through the use of readily available or custom made toolboxes where the extensions can be written in ubiquitous lower level languages like Fortran and C.

Xcos Xcos is a graphical dynamical system

modeler and simulator. With this, the user can create block diagrams to model and simulate the dynamics of sophisticated dynamical systems and compile such models into executable code. Xcos is used for signal processing, systems control, queuing systems, and to study physical and biological systems. It can be used to model and simulate mechanical systems, hydraulic systems, electrical systems, chemical systems, biological systems and many more.

Lab Migration Project

Is your lab still paying hefty amounts for mathematical tools which can be replaced by a nifty, free-of-cost software called Scilab? Then we suggest its the time to switch to the world of free knowledge and also to grace your annual balance-sheets significantly.

Please get in touch with us at
contact@scilab.in and we will help you.

Please allow us to assist your lab in shifting to Scilab.
http://scilab.in/lab_migration/proposal
For more information please visit
http://scilab.in/Lab_Migration_Project

The Textbook Companion Project

The Textbook Companion Project aims to port worked out examples (and optionally, select exercise problems) from standard textbooks using an open source software system, such as Scilab. In the following writeup, the word Scilab can be replaced by any other open source software as well. Any "standard" text-book can be used for this purpose. It will be referred to simply as textbook.

What is the objective of this exercise?
* To make it easy for the users of the textbook to start using Scilab
* To improve the documentation available for Scilab

For more details please visit
http://scilab.in/Textbook Companion Project

Hardware Project

SBHS: Single Board Heater System (SBHS) is a lab-in-a box setup which is primarily used for teaching/studying the theory of control systems. The setup has been designed to cater the needs of undergraduate and postgraduate control courses. You can perform various control experiments on it - from tests as simple as Step Tests to complicated closed loop tests! This setup is also available for remote access under Virtual labs project

http://vlabs.iitb.ac.in/sbhs/index.php
http://fossee.in/moodle/

Data Acquisition System: Project aims to setup virtual labs based on standard DAQ cards available. (eg PCI) 1711 Advantech DAQ card). Open source drivers ,tools and libraries are available from COMEDI (linux control and measurement device interface). HART toolbox provides interface between comedi and scilab to access ADC and DAC functionality of DAQ card.

http://comedi.org/
http://hart.sourceforge.net/doc.

Workshops

We propose to organise Level-o Ser workshops using spoken tutorials of ten minutes each. We believe that the extent of learning possible in the above mentioned scheme would be better than a usual workshop of much longer time duration.Possibly, the scheme proposed here could be considered as equivalent to a one week typical workshop. Hence it may be possible to give a certificate to this effect. For more details please visit: http://scilab.in/wiki/index.php/Workshops GNU Radio GNURadio is an open source Software Defined Radio (SDR) that was designed to convert all hardware problems into software problems. GNURadio package is provided with a complete HDTV transmitter and re-ceiver, a spectrum analyzer, an oscillo-scope, a multichannel receiver and a wide collection of modulators and demodulators. Its applications are primarily written using the Python programming language, while the supplied, performance-criticalsignal processing path is implemented in C++ using processor floating point extensions where available. For more details please visit http://spoken-tutorial.org/script/index.php/GNURadio

The Links Project Links Project provides a mechanism to list all the available scilab documents and to rank them. This project allows community participation for both listing and ranking. For more information, please visit http://scilab.in/links

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COLLEGE OF ENGINEERING & MANAGEMENT, JALGAON – 425001
Electrical Engineering Department
Academic Year 2020-21 SEM – II

DATE: 20/03/2021

Schedule for Scilab Workshop

Sr.no.	Date	Topic
1	22/03/2021	Introduction to scilab and its benefits
2	22/03/2021	Self learning of scilab
3	22/03/2021	The amazing resources of scilab
4	22/03/2021	Scilab lab migration
5	22/03/2021	Installing
6	22/03/2021	Getting started
7	23/03/2021	Vector operations
8	23/03/2021	Matrix operations
9	23/03/2021	Conditional branching
10	23/03/2021	Iteration
11	23/03/2021	Scripts and functions
12	23/03/2021	Plotting 2D Graphs
13	24/03/2021	Xcos introduction
14	24/03/2021	File handling
15	24/03/2021	User defined input and output
16	24/03/2021	Integration
17	24/03/2021	Solving nonlinear equations
18	24/03/2021	Linear equations guassian method
19	25/03/2021	Linear equation iterative method
20	25/03/2021	Interpolation
21	25/03/2021	ODE Euler method
22	25/03/2021	ODE Applications
23	25/03/2021	Optimaization
24	25/03/2021	Digital signal processing

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25	26/03/2021	Control systems
26	26/03/2021	Discrete systems
27	26/03/2021	Calling user defined functions in XCOS
28	26/03/2021	Simulation
29	26/03/2021	Developing a scilab toolbox
30	26/03/2021	Developing a scilab toolbox for python
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HOD
Mr. Kalpesh M. Mahajan

2

KCES's COLLEGE OF ENGINEERING AND MANAGEMENT JALGAON

A.Y 2020-21

Spoken tutorial IIT Bombay

Participant List

Class: S.Y. B.Tech (Electrical Engg.)

Sr.No	Name of student	Email ID	Gender
1	KOMAL DHANGAR	komaldhangar2001@gmail.com	Female
2	HARSHADA LOKHANDE	harshadalokhande2752001@gmail.com	Female
3	BHUSHAN CHAUDHARI	chaudharibhushan862001@gmail.com	Male
4	SIDDHARTA MORE	moresidharth8@gmail.com	Male
5	DEVENDRA NARKHEDE	devendra1112@gmail.com	Male
6	VISHAL SONAWANE	vdsonawane@gmail.com	Male
7	PRATIKSHA PAWARA	pratiksha023@gmail.com	Female
8	RAVSAHEB MALI	maliravsaheb0871@gmail.com	Male
9	LOKESH PATIL	lokeshpatil805@gmail.com	Male
10	RUSHIKESH PATIL	rushikeshpatil02062001@gmail.com	Male
11	MUKESH PATIL	mp523675@gmail.com	Male
12	PRERANA NERPAGAR	nerpagarprerana@gmail.com	Female
13	HARISH WANI	waniharish448@gmail.com	Male
14	NIKHIL PAWAR	nikhilbpawar@gmail.com	Male
15	PRADIP PATIL	pradip1998@gmail.com	Male
16	KIRAN MAHAJAN	mahajankiran01@gmail.com	Male
17	RUSHIKESH PAWAR	rushikeshpawar@gmail.com	Male
18	TEJAS BAMHANDE	tejaspb2000@gmail.com	Male
19	ROHAN DESALE	deslerohan7@gmail.com	Male
20	DURGESH PATIL	durgeshmpatil@gmail.com	Male
21	CHHAYA SONAWANE	sonawanechhaya2001@gmail.com	Female
22	GAURAV PATIL	gauravp2001@gmail.com	Male
23	JAYESH PATIL	jayesh.patil7756@gmail.com	Male
24	AKSHAY BHALERAO	akshaybhalerao96@gmail.com	Male

25	SHAIKH SHOYEB	shoaibsk1919@gmail.com		Male
26	BHUSHAN BHOLE	bhushanbhole1998@gmail.com		Male
27	HIMANI PATIL	patilhimani608@gmail.com		Female
28	NILESH PATIL	nilgurjar9033@gmail.com		Male
29	TEJAS KULKARNI	kulkarnit21@gmail.com		Male
30	DHANRAJ SONAWANE	dhanraj22102001@gmail.com		Male
31	KUNDA PATIL	kundapatil938@gmail.com		Female
32	GAURAV PATIL	gp161765@gmail.com		Male
33	SHUBHAM KOTKAR	shubhambkotkar03@gmail.com		Male
34	GAURAV BARHATE	barhategaurav01@gmail.com		Male
35	ASHWINI PATIL	patilashwini123321@gmail.com		Female
36	KOMAL MAHAJAN	komalmahajan09@gmail.com		Female
37	SURAJ GAJARE	surajgajare3@gmail.com		Male
38	BHUSHAN PATIL	bp1651241@gmail.com		Male
39	ROHIT BORASE	rohitborse2018@gmail.com		Male
40	PARAG PATIL	paragpatil744@gmail.com		Male
41	YAMINI SHIRSAL	yshirsal@gmail.com		Female
42	HARSHAL BACHHAV	bachhavharshal29@gmail.com		Male
43	HARSHA BHALERAO	bhaleraoharsha5@gmail.com		Female
44	ROHINI MALI	malirohini2001@gmail.com		Female
45	REHAN SHAIKH	rehanshaikhzs1996@gmail.com		Male
46	KUNAL BODADE	kunalbodade2055@gmail.com		Male
47	NILESHWARI KOLI	pradeeptayade11@gmail.com		Female
48	PUSHPAK RANE	pushpakrane2@gmail.com		Male
49	TUSHITA SALUNKHE	abhisalunkhe4807@gmail.com		Female
50	CHHANDAKSHA PATIL	chhandaksha999@gmail.com		Female
51	JAYESH VARADE	jayeshvarade99@gmail.com		Male
52	SAVITA DHANGAR	savitadhangar095@gmail.com		Female
53	SOHEB TADAVI	sohebtadavi007@gmail.com		Male
54	SANGHMITRA SURWADE	surwadesanghmitra678@gmail.com		Female

55	SHUBHAM BORASE	shubhborse99@gmail.com	Male
56	GAYATRI BARI	gayatribari97@gmail.com	Female
57	ASHWINI TAYADE	ashwinitayade780@gmail.com	Female
58	TEJAS MORE	tejasm3062000@gmail.com	Male
59	SHUBHAM WANI	shubhamwani272@gmail.com	Male
60	MAYUR KOLI	kolimayur491@gmail.com	Male
61	ARUN PAWARA	arunpawara441@gmail.com	Male
62	RAHUL PAWARA	rahulpawara51099@gmail.com	Male
63	BHUSHAN AHIRE	bahire753@gmail.com	Male
64	MANOHAR MORE	manoharm2698@gmail.com	Male
65	MAYUR SALI	mayursali98@gmail.com	Male
66	ANIKET CHAUDHARI	aniketchaudhari098@gmail.com	Male
67	PALLAVI HIROLE	pallavi72185@gmail.com	Female
68	SANDIP PAWARA	sandipnarsing19499@gmail.com	Male
69	CHINMAY GAVALI	chinmaykce@gmail.com	Male
70	KAJAL PATIL	kajalpatilkce@gmail.com	Female
71	ADITYA WANI	adityawani128@gmail.com	Male

KCES's COLLEGE OF ENGINEERING AND MANAGEMENT JALGAON
A.Y 2020-21
Spoken tutorial IIT Bombay
Participant List

Class: T.Y. B.Tech (Electrical Engg.)

Sr.No	Name of student	Email ID	Gender
1	NILESH DAYMA	nilesh.dayma1122@yahoo.com	Male
2	CHETAN PATIL	chetantulshidaspatil@gmail.com	Male
3	YOMIT CHOPADE	yomitchopade@gmail.com	Male
4	SANJANA PAWAR	pawarsanjana9075@gmail.com	Female
5	MAYUR BONDE	mayurbonde03@gmail.com	Male
6	SHUBHAM PATIL	patildshubham00@gmail.com	Male
7	HARSHAL PATIL	patilharshal9522@gmail.com	Male
8	PUJA VARADE	varadepuja7057@gmail.com	Female
9	BHAGYASHRI PATIL	patilbhagyashri7507@gmail.com	Female
10	DIPAK PATIL	dipakpatil4377@gmail.com	Male
11	PIYUSH TIWARI	piyushtiwari7860@gmail.com	Male
12	BHARGAV SONAR	bhargavssonar@gmail.com	Male
13	GAURAV YEOLE	gauravyeole82@gmail.com	Male
14	HARSHADA SURYAWANSHI	harshada.suryawanshi.54@gmail.com	Female
15	RENU BARHATE	shrutidhara26@gmail.com	Female
16	ASHWINI MAHAJAN	ashwinimahajan8556@gmail.com	Female
17	HARSHA CHAUDHARI	harshachaudhari3107@gmail.com	Female
18	DIVYESH PATIL	dp762690@gmail.com	Male
19	KAVERI SONAWANE	kaverisn1010@gmail.com	Female
20	AVI PATIL	avip8272@gmail.com	Male
21	MAHESH RAJPUT	rajputmahesh21011@gmail.com	Male
22	SONU BHOI	sonubhoi456@gmail.com	Male
23	SHYAM TAYADE	shyamtayade10@gmail.com	Male
24	HARSHAL BHARULE	bharuleharshal123@gmail.com	Male
25	MAHESH PATIL	maheshpatil112255@gmail.com	Male
26	CHAITANYA SONAWANE	chaitanyasonawane04@gmail.com	Male
27	ANANTA PATIL	anantap099@gmail.com	Male
28	YOGESH BHAVSAR	itsyogi2000@gmail.com	Male
29	RUPESH MAHAJAN	rvmahajan1998@gmail.com	Male
30	NIKHIL RAJPUT	nikhilrajput1276@gmail.com	Male
31	CHETAN PATIL	chetanpatil6598@gmail.com	Male
32	KUNAL BHAT	kunalbhat789@gmail.com	Male
33	SAURABH SHIMPI	saurabhshimpi2297@gmail.com	Male
34	MOHIT RANE	kishorrane443@gmail.com	Male
35	RUSHIKESH KAKADE	ishurkakade299@gmail.com	Male

36	PRANALI RADE	pranalirade2018@gmail.com	Female
37	MOHIT BHOGE	mrbhoge1900@gmail.com	Male
38	MANISH PAWAR	manishpawar5199@gmail.com	Male
39	TUSHAR CHAUDHARI	tusharpc20000@gmail.com	Male
40	PUJA SANDANSHIV	sapooja682@gmail.com	Female
41	CHETAN VARULE	kcecoeitteelectrical@gmail.com	Male
42	PIYUSH KOLHE	piyushkolhe@gmail.com	Male
43	HARSHAL PATIL	harshalpatil17062000@gmail.com	Male
44	PANKAJ VYAS	pankajvyas111@gmail.com	Male
45	URMILA DESHMUKH	urmila.deshmukh0507@gmail.com	Female
46	GAURAV NERKAR	gauravnerkar104@gmail.com	Male
47	SHWETA BADGUJARA	shwetabadgujar123@gmail.com	Female
48	SHWETA SONAWANE	shwetasonawane229@gmail.com	Female
49	SHIVANAND PATIL	spatil0901@gmail.com	Male
50	HARSHAL MAHAJAN	harshalmahajan4237@gmail.com	Male
51	KHUSHAL JAWALE	khushaljawale97@gmail.com	Male
52	SACHIN PATIL	sachinpatil42283@gmail.com	Male
53	SANDESH PAWAR	pawarsandesh50@gmail.com	Male
54	BHARAT SONAWANE	bharatsonawane1053@gmail.com	Male
55	DEVYANI KEDAR	devyanikedar98@gmail.com	Female
56	GAURAV RANE	gauravrane789@gmail.com	Male
57	DARSHAN PATIL	darshanpatil0001@gmail.com	Male
58	JAYESH ZOPE	jayeshzope6139@gmail.com	Male
59	MANOJ PATIL	manojpatil21299@gmail.com	Male
60	PRITAM BARI	pritambari206@gmail.com	Male
61	GAURAV SALUNKHE	gssalunkhe53@gmail.com	Male

KCES's COLLEGE OF ENGINEERING AND MANAGEMENT JALGAON

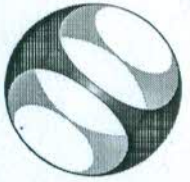## A.Y 2020-21

Spoken tutorial IIT Bombay

Participant List

Class: B.Tech (Electrical Engg.)

Sr. No	Name of student	Email ID	Gender
1	SARIKA SONAWANE	sarikasonawane31299@gmail.com	Female
2	VEDANT PATIL	vedantp017@gmail.com	Male
3	POORVA BARHATE	poorvapbarhate1999@gmail.com	Female
4	SHRADDHA THORAT	thoratshraddha98@gmail.com	Female
5	MOHIT PATIL	mohitpatil196@gmail.com	Male
6	DIVYANSHU JAGTAP	jagtapd011@gmail.com	Male
7	VAISHNAVI SONONE	vasonone199@gmail.com	Male
8	NEHA PATIL	pneha7320@gmail.com	Female
9	MAYURI DALAL	mayuridalal0@gmail.com	Male
10	JAGRUTI BHOSALE	bhoslejagruti630@gmail.com	Female
11	CHETAN PATIL	chetan31799@gmail.com	Male
12	LITESH INGALE	liteshingale99@gmail.com	Male
13	MOHAMMAD WAJAHAT RAZA SHAIKH	wajahatrazakhatik@gmail.com	Male
14	AMOL JAVHARE	amoljavhar1998@gmail.com	Male
15	URMILA SAPKALE	urmilasap2000@gmail.com	Female
16	HARSHALI KOLE	harshali311099@gmail.com	Female
17	HIMANSHU PATIL	himupatil6999@gmail.com	Male
18	MAYUR BONDE	mayursbonde@gmail.com	Male
19	KASHINATH VARKE	kashinathvarake@gmail.com	Male
20	UJJWAL PATIL	ujwalpatil55489@gmail.com	Male
21	FARDEEN KHAN	fardeenkhanjavedkhan88@gmail.com	Female
22	PRATIK RAJPUT	pratik1999rajput@gmail.com	Male
23	KHUSHABU SHIRSATH	khushaboo1910@gmail.com	Female
24	TEJASWINI PATIL	tejaswinipatil2900@gmail.com	Female
25	SWATI DESHMUKH	swatibdeshmukh99@gmail.com	Female
26	KAJAL PATIL	kajalapatil2000@gmail.com	Female
27	MRUNAL AHIRE	mrunalahire26@gmail.com	Female
28	PRATIKSHA PATIL	pp874712@gmail.com	Female
29	SHUBHAM PATIL	sp767369@gmail.com	Male
30	AMOL PACHPANDE	amolpachpande100@gmail.com	Male
31	PAWANKUMAR AMBATKARMAR	pavanambat4@gmail.com	Male
32	YOGESH PATIL	yogeshpatil03051999@gmail.com	Male
33	NEHAL CHAUDHARI	nehalchaudhari36.nc@gmail.com	Male
34	HARSHAL PATIL	harshalpatil2434@gmail.com	Male
35	PANJABRAO BORASE	panjabrao1994@gmail.com	Male

	Name	Email	Gender
36	ROHAN MALI	rohanm566@gmail.com	Male
37	BHAVANA PATIL	bp09062002@gmail.com	Female
38	ANKITA PATIL	ankitapatil1997@gmail.com	Female
39	PRASHANT JADHAV	prashant.jadhav1106@gmail.com	Male
40	PARESH CHAUDHARI	pareshchaudhari764@gmail.com	Male
41	PARESH PATIL	pareshpatil429@gmail.com	Male
42	PANKAJ PATIL	pankajvijaypatil96@gmail.com	Male
43	HEMANT MORE	hmore928@gmail.com	Male
44	RUPALI BAGUL	rupalibagul64@gmail.com	Female
45	GAURAV KHADSE	gauravkhadse73@gmail.com	Male
46	JAYASHREE SHIMPI	jayashreeshimpi5@gmail.com	Female
47	ISHWAR PATIL	ishwarapatil1998@gmail.com	Male
48	MILIND RANDHE	milindkrandhe1607@gmail.com	Male
49	ATUL INGALE	atulingale0@gmail.com	Male
50	VISHAL KOLI	vishalkoli113@gmail.com	Male
51	DHIRAJ BADGUJAR	dhirajbadgujar97@gmail.com	Male
52	MAYUR CHAUDHARI	mayurchaudhari439@gmail.com	Male
53	SHREYA YEOLE	yeoleshreya20@gmail.com	Female
54	PRIYANKA DEWANG	priyanka123dewang@gmail.com	Female
55	PRIYANKA MAHAJAN	piyumahajan215@gmail.com	Female
56	HARSHADA PATIL	patilharshada230@gmail.com	Female
57	AMAN KOLHE	amankolhe1@gmail.com	Male
58	MAYUR PAWAR	mayurapawar97@gmail.com	Male
59	UMESH PATIL	umeshpatil53273@gmail.com	Male
60	SUDHIR WAGH	sudhir123wagh@gmail.com	Male
61	RAGINI SONAWANE	raginisonawane16398@gmail.com	Female
62	DEVIDAS SANANSE	devidassananse1@gmail.com	Male
63	YOGRAJ BHANGALE	yograjbhangale98@gmail.com	Male
64	Nikhil Shukla	nikhilshukla2211@gmail.com	Male
65	SHUBHANGI SONAWANE	shubhangikoli526@gmail.com	Female
66	GAURAV BAVISKAR	gauravsv22@gmail.com	Male
67	CHETAN MAGARE	chetanmagare3367@gmail.com	Male
68	HITENDRA RANE	hiturane1993@gmail.com	Male
69	DIPESH JAGTAP	jagtapdipak01@gmail.com	Male
70	DEEPAK PATIL	deepakpatil18291@gmail.com	Male

Certificate of Participation

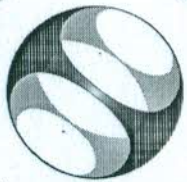**Spoken Tutorial Project at IIT Bombay**

This is to certify that **PRERANA NERPAGAR** participated in the **Scilab** training organized at **KHANDESH COLLEGE EDUCATION SOCIETY'S COLLEGE OF ENGINEERING AND MANAGEMENT, JALGAON** in **January 2021** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **Scilab** were covered in the training.

April 2nd 2021

Prof. Kannan M Moudgalya
IIT Bombay
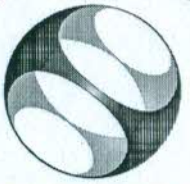
Spoken Tutorial
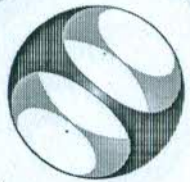Project at
IIT Bombay

Certificate of Participation

This is to certify that **ASHWINI PATIL** participated in the **Scilab** training organized at

KHANDESH COLLEGE EDUCATION SOCIETY'S COLLEGE OF ENGINEERING AND

MANAGEMENT, JALGAON in **January 2021** semester, with course material provided

by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **Scilab** were covered in the training.

April 2nd 2021

Prof. Kannan M Moudgalya
IIT Bombay

Certificate of Participation

This is to certify that **NILESH DAYMA** participated in the **Scilab** training organized at

KHANDESH COLLEGE EDUCATION SOCIETY'S COLLEGE OF ENGINEERING AND

MANAGEMENT, JALGAON in **January 2021** semester, with course material provided

by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **Scilab** were covered in the training.

April 30th 2021

Prof. Kannan M Moudgalya
IIT Bombay

Certificate of Participation

This is to certify that **DEVYANI KEDAR** participated in the **Scilab** training organized at

KHANDESH COLLEGE EDUCATION SOCIETY'S COLLEGE OF ENGINEERING AND

MANAGEMENT, JALGAON in **January 2021** semester, with course material provided

by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **Scilab** were covered in the training.

Prof. Kannan M Moudgalya
IIT Bombay

April 30th 2021

Certificate of Participation

This is to certify that **SARIKA SONAWANE** participated in the **Scilab** training organized at **KHANDESH COLLEGE EDUCATION SOCIETY'S COLLEGE OF ENGINEERING AND MANAGEMENT, JALGAON** in **January 2021** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **Scilab** were covered in the training.

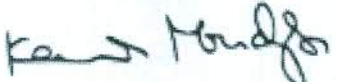April 30th 2021

Prof. Kannan M Moudgalya
IIT Bombay

Certificate of Participation

This is to certify that **PRATIK RAJPUT** participated in the **Scilab** training organized at **KHANDESH COLLEGE EDUCATION SOCIETY'S COLLEGE OF ENGINEERING AND MANAGEMENT, JALGAON** in **January 2021** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **Scilab** were covered in the training.

April 30th 2021

Prof. Kannan M Moudgalya
IIT Bombay