SREYAS

INSTITUTE OF ENGINEERING AND TECHNOLOGY

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One day Workshop on Scilab - 4 May 2019

Timing	Description of the Session	Session type
9.00 AM - 9.30 AM	Connect online on A-VIEW and testing session	Online through A-VIEW
9.30 AM - 10.00 AM	Inaugural Session: Overview of the project and workshop, conduct of the workshop, answering through Forum, efficacy of the method, etc.	
10.00 AM - 10.30 AM	Interaction with Remote Centres	
10.30 AM – 10.45 AM	Tea Break	
10.45 PM - 1.00 PM	Self Learning of Scilab using Spoken Tutorials	At Remote Centres
1.00 PM - 2.00 PM	Lunch Break	
2.00 PM- 3.45 PM	Scilab Learning (contd.)	At Remote Centres
3.45 PM- 4.00 PM	Tea Break	
4.00 PM- 5.00 PM	Scilab Learning (contd.)	At Remote Centres
5.00 PM - 6.00 PM	Interaction with Remote Centres and Valedictory Session	Online through A-VIEW

Dr. N. Murali Krishna
Head of the Department
Electronics & Communication Engineering
Sreyas Institute of Engineering and Technology
Beside Indu Aranya, Nagole, Hyderabad-68

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SREYAS INSTITUTE OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF ECE

LIST OF PARTICIPANTS

S.NO	NAME OF THE PARTICPANT	COLLEGE	TITLE OF THE PROGRAM	DATE
1	G Jyothi	AURORA	One-day workshop on Scilab in association with IIT Bombay	05-04-2019
2	Manohar Kotha	SIET	One-day workshop on Scilab in association with IIT Bombay	05-04-2019
3	Sreenath Kashyap	KPRIT	One-day workshop on Scilab in association with IIT Bombay	05-04-2019
4	Vipul Dabhi	KPRIT	One-day workshop on Scilab in association with IIT Bombay	05-04-2019
5	Shaik Imam Vali	KPRIT	One-day workshop on Scilab in association with IIT Bombay	05-04-2019
6	Tellagorla Murali Krishna	KPRIT	One-day workshop on Scilab in association with IIT Bombay	05-04-2019
7	Shyam Kondeti	KPRIT	One-day workshop on Scilab in association with IIT Bombay	05-04-2019
8	Chaitanya Pandrapragada	SIET	One-day workshop on Scilab in association with IIT Bombay	05-04-2019
9	S V Maruthi Rao Chinnam	SIET	One-day workshop on Scilab in association with IIT Bombay	05-04-2019
10	Sanjana Mathew	SIET	One-day workshop on Scilab in association with IIT Bombay	05-04-2019
11	K Kranthi Kumar	SIET	One-day workshop on Scilab in association with IIT Bombay	05-04-2019
12	Shaik Fairooz	SIET	One-day workshop on Scilab in association with IIT Bombay	05-04-2019
13	Bandari Sanjanna	SIET	One-day workshop on Scilab in association with IIT Bombay	05-04-2019
14	Srilekha Medichelimi	KPRIT	One-day workshop on Scilab in association with IIT Bombay	05-04-2019
15	Raja Sekhar Kallu	SIET	One-day workshop on Scilab in association with IIT Bombay	05-04-2019
16	K.L.N.Murthy	SIET	One-day workshop on Scilab in association with IIT Bombay	05-04-2019
17	Medabalimi Gangadhara Rao	SIET	One-day workshop on Scilab in association with IIT Bombay	05-04-2019
18	Suresh Akella	SIET	One-day workshop on Scilab in association with IIT Bombay	05-04-2019
19	V. A. Sankar Ponnapalli	SIET	One-day workshop on Scilab in association with IIT Bombay	05-04-2019
20	Gundu Ramachandra Kumar	SIET	One-day workshop on Scilab in association with IIT Bombay	05-04-2019
21	Y.Sravan Kumar	SIET	One-day workshop on Scilab in association with IIT Bombay	05-04-2019
22	Sathish K	SIET	One-day workshop on Scilab in association with IIT Bombay	05-04-2019
23	Rajesh Kumar Prakhya	CVR	One-day workshop on Scilab in association with IIT Bombay	05-04-2019
24	Sreenivasu B	SIET	One-day workshop on Scilab in association with IIT Bombay	05-04-2019
25	Mahesh Kusuma	SIET	One-day workshop on Scilab in association with IIT Bombay	05-04-2019
26	Suman	SIET	One-day workshop on Scilab in association with IIT Bombay	05-04-2019
27	A.Sowjanya	SIET	One-day workshop on Scilab in association with IIT Bombay	05-04-2019
28	Shaik Mohammad Rafi	SIET	One-day workshop on Scilab in association with IIT Bombay	05-04-2019
29	Hemlata Dalmia	SIET	One-day workshop on Scilab in association with IIT Bombay	05-04-2019
30	Basavaraj	SIET	One-day workshop on Scilab in association with IIT Bombay	05-04-2019
31	K.Sonali Swaroop	SIET	One-day workshop on Scilab in association with IIT Bombay	05-04-2019
32	Sandeep Kumar Jakku	SIET	One-day workshop on Scilab in association with IIT Bombay	05-04-2019
33	Vuppala Swathi	SIET	One-day workshop on Scilab in association with IIT Bombay	05-04-2019
34	Segonda Swapna	SIET	One-day workshop on Scilab in association with IIT Bombay	05-04-2019
35	Praveena Alladi	SIET	One-day workshop on Scilab in association with IIT Bombay	05-04-2019
36	Vijay Goud G	SIET	One-day workshop on Scilab in association with IIT Bombay	05-04-2019
37	Neha Anjum	SIET	One-day workshop on Scilab in association with IIT Bombay	05-04-2019
38	Aqeel Shaik	SIET	One-day workshop on Scilab in association with IIT Bombay	05-04-2019
39	Sireesha P	SIET	One-day workshop on Scilab in association with IIT Bombay	05-04-2019
40	Y Satish Kumar	SIET	One-day workshop on Scilab in association with IIT Bombay	05-04-2019
41	B.Himabindu	SIET	One-day workshop on Scilab in association with IIT Bombay	05-04-2019

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Summary report on one-day workshop on Scilab under the National Mission onEducation through ICT (MHRD, Govt.of India), 04th May, 2019. Conducted by theTeaching Learning Centre (ICT),IIT Bombay,hosted by Sreyas Institute of Engineering & Technology (RCID: 1533).

An important initiative has been taken by IIT Bombay and MHRD, Govt.of Indiato work with engineering colleges in the country to enhance the teaching skills of our faculty colleagues in core engineering and science subjects. Teach One Thousand Teachers programme run successfullyearlier by IIT Bombay under the project called 'Empowerment of Students and Teachers throughSynchronous and Asynchronous Instruction,' various workshops are conducted during thevacation periods in summer and winter. Participating teachers attend live lectures delivered by IIT facultyat a remote center close to their own college, and attend tutorial and lab sessions conducted in thesame centers. The lecture transmission and live interaction takes place in distance mode using theAVIEW technology through internet, at selected remote centers across the country. This initiative is partof the 'National Mission on Education through ICT,' which is supported by MHRD. Faculty coordinatorsare appointed at each remote centre to handle the technology infrastructure and other operational logistics. Additionally, for each workshop there will be a workshop Faculty Coordinator for that subject,who will help in the conduct of labs and tutorials at each center.

Another successful technology developed at IIT Bombay is Spoken Tutorial, using which about 50 lakh students have been trained on various ICT topics. The Spoken Tutorial project is also implemented successfully at IIT Bombay, with funding from NMEICT, MHRD. IIT Bombay currently offer the highly effective Spoken Tutorial based ICT training to a large number of teachers, across the country, through the T10KT methodology.

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The Sreyas Institute of Engineering & Technology (RCID: 1533), together with the IIT Bombay, hosted a one day workshop on Scilab on 04thMay, 2019. The workshop was Co- ordinate byProf. Kannan Moudgalya, Dept. ofChemical Engineering, IIT Bombay. The event was supported by NationalMission on Education through ICT (MHRD, Govt.of India).

The workshop was inaugurated with opening speech from Prof. Kannan Moudgalya, Principal Coordinatorof the workshop, welcoming all dignitaries and delegates followed by keynote address.

The Participants from various Engineering colleges across all over India participated in this workshop. Inour Remote Center total 39faculty members from various engineering colleges are participated and they successfully completed the assigned tasks by the workshop co-ordinators.

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One day workshop on Scilab under the National Mission on Education through ICT (MHRD, Govt.of India), 04th May 2019. Conducted by IIT Bombay, hosted by Sreyas Institute of Engineering & Technology (RCID: 1533)

Workshop Team Details:

Dr. Sandeep Kumar (RC Coordinator) Dr. Kantipudi MVV Prasad (WS Coordinator)

Mr. P. Mallikarjuna Reddy, Mr. T.Ravi Kumar & K.Rajkumar (Technical Support Team)

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Sreyas & IIT Bombay

Workshop on Scilab Using
AVIEW technology through internet
Supported by MHRD, Govt.of India
RCID: 1533

Summary report on one-day workshop on Scilab under the National Mission on Education through ICT (MHRD, Govt.of India), 04th May, 2019. Conducted by the Teaching Learning Centre (ICT), IIT Bombay, hosted by Sreyas Institute of Engineering & Technology (RCID: 1533).

An important initiative has been taken by IIT Bombay and MHRD, Govt.of India to work with engineering colleges in the country to enhance the teaching skills of our faculty colleagues in core engineering and science subjects. Teach One Thousand Teachers programme run successfully earlier by IIT Bombay under the project called 'Empowerment of Students and Teachers through Synchronous and Asynchronous Instruction,' various workshops are conducted during the vacation periods in summer and winter. Participating teachers attend live lectures delivered by IIT faculty at a remote center close to their own college, and attend tutorial and lab sessions conducted in the same centers. The lecture transmission and live interaction takes place in distance mode using the AVIEW technology through internet, at selected remote centers across the country. This initiative is part of the 'National Mission on Education through ICT,' which is supported by MHRD. Faculty coordinators are appointed at each remote centre to handle the technology infrastructure and other operational logistics. Additionally, for each workshop there will be a workshop Faculty Coordinator for that subject, who will help in the conduct of labs and tutorials at each center.

Another successful technology developed at IIT Bombay is Spoken Tutorial, using which about 50 lakh students have been trained on various ICT topics. The Spoken Tutorial project is also implemented successfully at IIT Bombay, with funding from NMEICT, MHRD. IIT Bombay currently offer the highly effective Spoken Tutorial based ICT training to a large number of teachers, across the country, through the T10KT methodology.

The Sreyas Institute of Engineering & Technology (RCID: 1533), together with the IIT Bombay, hosted a one day workshop on Scilab on 04th May, 2019. The workshop was Co- ordinate by Prof. Kannan Moudgalya, Dept. of Chemical Engineering, IIT Bombay. The event was supported by National Mission on Education through ICT (MHRD, Govt.of India).

The workshop was inaugurated with opening speech from Prof. Kannan Moudgalya, Principal Coordinator of the workshop, welcoming all dignitaries and delegates followed by keynote address.

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National Mission on Education Through ICT

Empowerment of Students and Teachers through Synchronous & Asynchronous Instruction

NME-ICT Workshops Management System, IIT Bombay

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All Remote Centers | Search RC
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Remote Center Shows the result of "1533" Print Preview Print Full RC Details Print Institute Head
Details Print RCC Details

Remote Center (Found 1 Entry)

Entry 1 of 1 Remote Centers

1533. Sreyas Institute Of Engineering & Technology, Hyderabad - Ranga Reddy (Telangana) ★☆☆☆☆ Rating
Head of the Institute : Dr Suresh Akella - Principal

Empowerment of Students and Teachers through Synchronous & Asynchronous Instruction
National Mission on Education through ICT
(Funded by MHRD New Delhi)

Indian Institute of Technology Bombay, Powai, Mumbai - 400 076

Supported by :
Ministry of Human Resources Development (MHRD)
Indian Institute of Technology Bombay

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users simultaneously. Faculty members can use Yaksh to evaluate their students.

4. Teaching faculty

- **Prof. Prabhu Ramchandran**, Co-Principal Investigator, FOSSEE project
- **Python Team members**, FOSSEE, IIT Bombay

5. Course Fee

Every participant has to pay Rs. 100 as the course fee to IIT Bombay at the time of online registration. On the day of the workshop, i.e., **on 22 June 2019**, they have to pay Rs. 400 to the Remote Centre that they would be attending, to defray the cost of organising the workshop, lunch, and coffee/tea. Please note that the registration fee once paid is neither refundable nor adjustable under any circumstances.

6. Who should attend?

As this workshop is not subject-specific, teaching faculty from all domains (engineering, sciences), and polytechnic colleges, and PGT of schools, can attend. Teachers registered in a Masters or a PhD programme, during their employment as a teacher, can also participate.

7. Criteria for issuing Certificates

E-certificate will be provided to the participants after successful completion of the workshop and filling up the feedback form.

8. Duration and Venue

The workshop will be conducted on Saturday, **22 June 2019 from 9.30 AM to 6.00 PM** at Remote Centres of IIT Bombay. This workshop will be conducted through a blended mode, using both live video conferencing facility (A-VIEW) and hands-on sessions using Spoken Tutorials. A detailed workshop schedule will be available soon.

9. How to apply?

Enrollment will be strictly online, and no other mode of application will be entertained. **The last date of registration is 20 June 2019, 12.30 pm.** The URL for registration is:
http://www.it.iitb.ac.in/nmeict/announcements.html

Register on the Spoken Tutorial Website:

1. Before the workshop, participants should register on https://spoken-tutorial.org/
2. Fill up the registration form and submit.
3. An email will be received.
4. The account should be activated by clicking the link in the email.
5. The Username and Password should be noted. This is an extremely important step.
6. One needs the above information to post questions on the forum, which will be explained at the time of the workshop.

Note

- Neither IIT Bombay nor the Remote Centre will bear the travel expense of the participating representatives. There shall also be no accommodation provided to the participants.
- All participants are required to bring **ear phones**, as they will have to listen to video tutorials. Without ear phones, the workshop will not at all be effective.
- Computers to practise Spoken Tutorials and to do Python programming will be available at the Remote Centres. But if they wish, participants can bring their own laptops with Python installed.

10. Prerequisite for the Python Workshop

The attending participants must see the **Introduction to Python video** before the workshop.

10. Address for communication

Dr. Kalpana Kannan
Project Coordinator, ESOS Project
Department of CSE, Kanwal Rekhi Building,
Indian Institute of Technology Bombay,
Mumbai - 400 076
Tel.: +91-22-2576 4989
Email: eoutreach@it.iitb.ac.in

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One day Workshop

Under
'Pandit Madan Mohan Malaviya
National Mission on Teachers and Teaching
(PMMMNMTT)',
MHRD, Govt. of India

on

Python

22 June 2019

Conducted by the
Teaching Learning Centre (ICT),
Supported by FOSSEE & Spoken Tutorials
at

IIT Bombay

Course Instructor:

Prof. Prabhu Ramchandran
Co-Principal Investigator, FOSSEE project

Project Coordinator

Prof. Kannan Moudgalya
Department of Chemical Engineering
Indian Institute of Technology Bombay
Powai, Mumbai 400076

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1. Introduction

IIT Bombay has conducted many large-scale teacher training workshops under the Train 10,000 Teachers (T10KT) programme, sponsored by the National Mission on Education through ICT (NMEICT), MHRD, Govt. of India, and trained over 2,00,000 teachers.

Another successful technology developed at IIT Bombay is Spoken Tutorial, using which about 50 lakh students have been trained on various ICT topics. The effectiveness of this method can be seen from the testimonials available here: https://spoken-tutorial.org/testimonials/media/?foss=70 and this TEDx talk. The Spoken Tutorial project is also implemented successfully at IIT Bombay, with funding from NMEICT, MHRD.

It is now proposed to offer the highly effective Spoken Tutorial based ICT training to a large number of teachers, across the country, through the T10KT methodology, with Python training being taken up next.

Python is a very versatile and easy-to-learn programming language with an extensive library of open tools allowing users to solve a variety of problems. Python has a rich ecosystem of libraries and tools for scientific computing and data science. There are libraries that provide a powerful interactive computing environment both on the console as well as on a web-browser. Python can interface relatively easily with other well-established languages like FORTRAN/C and C++. In addition to this Python also has libraries to build user interfaces, build web applications, interface to hardware, and a whole host of other domains. This makes Python an excellent language to learn opening up a world of possibilities to users who desire to use their computers more effectively.

The FOSSEE (Free/Libre and Open Source Software for Education) project at IIT Bombay ((https://fossee.in) has been promoting Python, and other FLOSS software, such as Scilab, OpenFOAM, eSim, Osdag, OpenModelica, DWSIM & R, and Open Source hardware, such as Arduino and OpenPLC. FOSSEE is also funded by NMEICT, MHRD. Government of India has mandated the use of open source software.

The Python workshop is organised by the Teaching Learning Centre (TLC) at IIT Bombay, funded by the *Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNMTT)*, MHRD, Govt. of India. As Spoken Tutorial method offers hands on practice, with 100% active learning, those who undergo this training will be able to start using Python immediately after the workshop. They will also be able to conduct Python workshops for their students, using Spoken Tutorials, on their own, without requiring any help from anyone else.

The one day Python workshop will be conducted on **Saturday, 22 June 2019,** through select Remote Centres of IIT Bombay. This will be a blended training programme that uses A-VIEW for live interactions and Spoken Tutorials to learn to use Python. The medium of instruction for this workshop is English.

2. Methodology of the Large-scale Workshop

It will be a **one day workshop, on 22 June 2019.** All participants will have to go to their chosen Remote Centre. They will learn Python through Spoken Tutorials, with help from Coordinators, already trained for this purpose by IIT Bombay. As the learning will happen only through carefully designed Spoken Tutorials, designed and developed at IIT Bombay, the quality of learning will be very high. All the participants, from all the Remote Centres, will be able to interact with the Python team at IIT Bombay, ask them questions, etc., through the video conferencing software A-VIEW and a timed discussion forum. There will be about 4 hours available for Python training and 2 hours for interactions.

3. Outline of the workshop

The workshop will have two parts:
(a) About 3.5 hours will be used in Learning Python from Spoken Tutorials.
(b) About 30 minutes will be used to learn about the excellent Python content, developed by FOSSEE.

3 (a) Learning Python from Spoken Tutorials

Depending on the level of the user, one can learn any/all of the topics mentioned below. If one cannot complete all the topics, one can complete them later on, through self-learning, as all required Spoken Tutorials are freely available.

Getting started: Getting started with IPython, Using plot commands interactively, Embellishing a plot, Saving plots, Multiple plots, Subplots, Additional features of IPython, Loading data from files, Plotting data, Other types of plots, Plotting charts,

Basic Level: Getting started with lists, Getting started with for, Getting started with strings, Getting started with files, Parsing data, Statistics, Getting started with arrays, Accessing parts of arrays, Image manipulation using arrays, Basic matrix operations, Advanced matrix operations, Least square fit, Basic datatypes and operators, Sequence datatypes, Input-Output, Conditional statements, Loops, Manipulating lists, Manipulating strings, Getting started with tuples, Dictionaries, Sets, Getting started with functions.

Intermediate Level: Advanced Features of Functions, Using Python Modules, Writing Python Scripts, Testing and Debugging, Error and Exception Handling.

3 (b) Useful Python content developed by FOSSEE

A significant issue with the acceptance of open source software on a large scale by academia is due to the lack of documentation. We had proposed and implemented a novel/unique approach to solve this problem through the Textbook Companion (TBC). The Python TBC is a repository of solved examples from standard Engineering and Science textbooks coded using Python. More than 500 standard engineering textbooks now have TBCs available. The solved examples are available in the form of Jupyter notebooks. There are over 4000 such notebooks available. These notebooks can be explored online or downloaded for free. Students and faculty from various parts of the country have created this collection.

One may use the Python TBC (1) to understand the steps of examples (2) to do what if studies by changing parameters. Python TBC are available at

https://tbc-python.fossee.in/completed-books/, absolutely free of cost. Python TBC is also hosted on the cloud.

Yaksh is also developed by FOSSEE, it is a free and open-source online evaluation software. It allows teachers to create full blown courses with video and/or markdown text-based lessons but with *Problem-based learning* at its core, Yaksh focuses on letting teachers create real-time evaluated practice exercises and quizzes. With a large array of question types like Multiple choice question, Fill-in-the-blanks, Arrange options in correct order, Assignment uploads and programming questions available, Yaksh supports Python, C, C++, Java, Bash and Scilab programming languages. Yaksh is designed to be easily deployable, and can scale-up to accommodate 500+

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One Day Workshop on Python

Participant Info			Date: 22nd June, 2019			
S.No	Id	Name	S 1	S 2	S 3	S 4
1	203690	V. K. Sandeep Paraitham				
2	204068	Manohar Kotha				
3	204517	Hemlata Dalmia				
4	204868	Shaik Fairooz				
5	204968	Vipul Dabhi				
6	205388	Gundu Ramachandra Kumar				
7	206087	C John Moses				
8	206092	Shaik Mohammad Rafi				
9	206661	Tellagorla Murali Krishna				
10	206824	Mahesh Kusuma				
11	206835	Archana Pinnoji				
12	206838	Ramya Nellutla				
13	206845	Satheesh Rapolu				
14	206873	M.Lubna Yasmeen				
15	206903	K. Madhura Vani				
16	206994	Swathi Gowroju				
17	207003	Sravani Koppuravuri				
18	207015	K Kranthi Kumar				
19	207016	Ranjith Kumar				
20	207167	Ramya Kunta				
21	207344	Sreenivasu B				
22	207381	Shyam Kondeti				
23	207473	Annam Vijay Kumar				
24	207586	Sreenath Kashyap				
25	207610	Shaik Imam Vali				
26	207630	Krishnaveni				
27	207654	Srilekha Medicheïmi				
28	207697	Vijay Goud G				
29	207722	Chaitanya Pandrapragada				
30	207756	Y.Sravan Kumar				
31	207773	V. A. Sankar Ponnapalli				
32	207791	Bhashavena Shushma				
33	207798	S V Maruthi Rao Chinnam				
34	207883	Ramesh Banoth				
35	207905	Marlene Grace Verghese D				
36	208334	Dara Eshwar				
37	208386	Praveena Alladi				
38	208415	Garlapati Nagababu				
39	208554	Anumula Srinivas				
40	208572	Lavanya Poluboyina				
41	208577	Marriboyana Sudhakar Yadav				
42	208585	Sandi Srikanth Reddy				
43	208596	Y Venkta Brahmam				
44	208659	Snigdha Kamala Pole				
45	208686	Kamineni Bala Tripura Sundari				
46	208938	Tadaboina Ramya				
47	208943	Praveen Basalingappa Ronad				
48	208995	Narasimha Kaki				
49	208997	Byreddy Amarender Reddy				
50	208999	Subrahmanyam Sayila				

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As this workshop is not subject-specific, teaching faculty from all domains (engineering, sciences), and polytechnic colleges, and PGT of schools, can attend. Teachers registered in a Masters or a PhD programme, during their employment as a teacher, can also participate.

7. Criteria for issuing Certificates

E-certificate will be provided to the participants after successful completion of the workshop and filling up the feedback form.

8. Duration and Venue

The workshop will be conducted on Saturday, **4 May 2019 from 9.30 AM to 6.00 PM** at Remote Centres of IIT Bombay. This workshop will be conducted through a blended mode, using both live video conferencing facility (A-VIEW) and hands-on sessions using Spoken Tutorials. A detailed workshop schedule will be available soon.

9. How to apply?

Enrollment will be strictly online, and no other mode of application will be entertained. **The last date of registration is 30 April 2019, 12.30 pm.** The URL for registration is: http://www.it.iitb.ac.in/nmeict/announcements.html

Register on the Spoken Tutorial Website:

1. Before the workshop, participants should register on https://spoken-tutorial.org/
2. Fill up the registration form and submit.
3. An email will be received.
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- Neither IIT Bombay nor the Remote Centre will bear the travel expense of the participating representatives. There shall also be no accommodation provided to the participants.
- All participants are required to bring **ear phones**, as they will have to listen to video tutorials. Without ear phones, the workshop will not at all be effective.
- Computers to practise Spoken Tutorials and to do Scilab programming will be available at the Remote Centres. But if they wish, participants can bring their own laptops with Scilab installed.

10. Prerequisite for the Scilab Workshop

You must see the four short videos given by Prof. Kannan Moudgalya about Scilab and its benefits.

Click here to watch on Youtube.
Click here to download the videos. It is mandatory to see all the given videos before the workshop.

11. Address for communication

Dr. Kalpana Kannan
Project Coordinator, ESOS Project
Department of CSE, Kanwal Rekhi Building,
Indian Institute of Technology Bombay,
Mumbai - 400 076
Tel.: +91-22-2576 4989
Email: coutreach@it.iitb.ac.in

One day Workshop

Under
'Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNMTT)',
MHRD, Govt. of India

on

Scilab

4 May 2019

Conducted by the
Teaching Learning Centre (ICT),
Supported by FOSSEE & Spoken Tutorials
at
IIT Bombay

Course Coordinator

Prof. Kannan Moudgalya
Department of Chemical Engineering
Indian Institute of Technology Bombay
Powai, Mumbai 400076

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1. Introduction

IIT Bombay has conducted many large-scale teacher training workshops under the Train 10,000 Teachers (T10KT) programme, sponsored by the National Mission on Education through ICT (NMEICT), MHRD, Govt. of India, and trained over 2,00,000 teachers.

Another successful technology developed at IIT Bombay is Spoken Tutorial, using which about 50 lakh students have been trained on various ICT topics. The effectiveness of this method can be seen from the testimonials available here: https://spoken-tutorial.org/testimonials/media. The Spoken Tutorial project is also implemented successfully at IIT Bombay, with funding from NMEICT, MHRD.

It is now proposed to offer the highly effective Spoken Tutorial based ICT training to a large number of teachers, across the country, through the T10KT methodology, with Scilab training being taken up next.

Scilab is a Free/Libre and Open Source Software (FLOSS), created mainly for numerical computations. It uses the state of the art numerical libraries, such as LINPACK, EISPACK and LAPACK, and hence, its results are highly reliable. Scilab implements the user friendly language, similar to the one used in the popular software Matlab. But unlike Matlab, Scilab can be freely downloaded, freely copied, freely modified and also freely distributed. Naturally, Scilab can be used absolutely free of cost, unlike Matlab, which can be extremely expensive, especially to the industry. Scilab comes with a graphical programming interface Xcos, which is similar to Simulink. A good knowledge of Scilab will help improve the employment potential of your students.

The FOSSEE (Free/Libre and Open Source Software for Education) project at IIT Bombay ((https://fossee.in) has been promoting Scilab, and other FLOSS software, such as Python, OpenFOAM, eSim, Osdag, OpenModelica, DWSIM & R, and Open Source hardware, such as Arduino and OpenPLC. FOSSEE is also funded by NMEICT, MHRD. Government of India has mandated the use of open source software.

The Scilab workshop is organised by the Teaching Learning Centre (TLC) at IIT Bombay, funded by the *Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNMTT)*, MHRD, Govt. of India. As Spoken Tutorial method offers hands on practice, with 100% active learning, those who undergo this training will be able to start using Scilab immediately after the workshop. They will also be able to conduct Scilab workshops for their students, using Spoken Tutorials, on their own, without requiring any help from anyone else.

The one day Scilab workshop will be conducted on **Saturday, 4 May 2019**, through Remote Centres of IIT Bombay. The medium of instruction for this workshop is English. Language dubbed Spoken Tutorials in Hindi and a few other languages will also be available.

2. Methodology of the Workshop

It will be a one day workshop, on 4 May 2019. All participants will have to go to their chosen Remote Centre. They will learn Scilab through Spoken Tutorials, with help from Coordinators, already trained for this purpose at IIT Bombay. As the learning will happen only through carefully designed Spoken Tutorials designed and developed at IIT Bombay, the quality of learning will be very high. All the participants, from all the Remote Centres, will be able to interact with the Scilab team at IIT Bombay, ask them questions, etc., through the video conferencing software A-VIEW. There will be about 4 hours available for Scilab training and 2 hours for interactions.

3. Outline of the workshop

The workshop will have two parts:
(a) About 3.5 hours will be used in Learning Scilab from Spoken Tutorials.
(b) About 30 minutes will be used to learn about the excellent Scilab content, developed by FOSSEE.

3(a). Learning Scilab from Spoken Tutorials

Depending on the level of the user, one can learn any/all of the topics mentioned below. If one cannot complete all the topics, one can complete them later on, through self-learning, as all required Spoken Tutorials are freely available.

Basic level: Getting started with Scilab, Vector Operations, Matrix Operations, Conditional branching, Iterations, Scripts and Functions, Plotting 2D graphs, Introduction to Xcos.
Intermediate level: File handling, User defined input and output, Integration, Solving non-linear equations, Linear equations - Gaussian methods, Linear equations - Iterative Methods, Interpolation, ODE Euler methods, and ODE Applications.
Advanced level: Optimization Using Karmarkar Function, Digital Signal Processing, Control systems, Discrete systems, Calling User Defined Functions in XCOS, and Simulating a PID controller using XCOS.

3(b). Useful Scilab content developed by FOSSEE

A major problem with open source software is the lack of documentation. A solution to this problem is the Textbook Companion (TBC). A Scilab TBC is a collection of Scilab code for all solved examples of standard textbooks. The FOSSEE team has coordinated the creation of Scilab TBC for 600 books in science and engineering, all branches, with Scilab code for about 75,000 examples. Such a large collection is not available for any other software, including commercial ones. Students and faculty from various parts of the country have created this collection. FOSSEE provides a handsome honorarium to any one who creates TBC.

One may use the Scilab TBC (1) to understand the steps of examples (2) to do what if studies by changing parameters (3) to locate the syntax for a command and (4) to locate all examples that use a particular command, and so on. Scilab TBC are available at https://scilab.in/Completed_Books, absolutely free of cost. Scilab TBC is also hosted on the cloud.

The FOSSEE Team also helps colleges migrate their labs to Scilab. This allows colleges that cannot afford Matlab to run their labs with Scilab. Codes of migrated labs are available at https://scilab.in/lab_migration/completed_labs.

The FOSSEE Team has also developed a few useful toolboxes, available at https://scilab.in/fossee-scilab-toolbox. We invite talented people to join us in improving these toolboxes and to develop new toolboxes. We have also created a cloud version of Xcos and 130 Xcos examples that can run on this cloud. Depending on the time available, one can try out all of the above.

4. Teaching faculty

Prof. Kannan Moudgalya, Principal Investigator, TLC (ICT), Spoken Tutorial and FOSSEE projects
FOSSEE Team members, IIT Bombay

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Hyderabad | PIN: 500068

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Dear Sir/Madam,

Greetings of the day....!

We are pleased to bring to your kind notice that IIT Bombay through National Mission on Education through ICT (NMEICT) supported by MHRD is organizing a one-day workshop on "Scilab for Teachers' on Saturday, 04 May 2019 to enhance the teaching/programming skills of teachers in high school, intermediate, engineering & Science education in India.

We are proud to announce that Sreyas Institute of Engineering & Technology is a remote centre (RCID: 1533) for IIT Bombay, where the participating Faculty/teachers will attend live lectures, given by IIT faculty members, through AVIEW Mechanism. Furthermore, the participants can interact with the Faculty.

The faculty members can register through online at https://www.it.iitb.ac.in/nmeict/workshopContent.html?workshopid=cvCcqusnXUHEd8JY5ih0Rg . The last date of registration is 30 April 2019.

The workshop is likely to benefit all high school, intermediate, engineering & Science teachers. As this workshop is not subject-specific, teaching faculty from all domains (engineering, sciences), and polytechnic colleges and PGT of schools can attend. Teachers registered in a Masters or a PhD Programme, during their employment as a teacher, can also participate.

A copy of the brochure is enclosed herewith for your kind perusal.

We request you to kindly depute faculty members from your esteemed organization for the above Programme.

Thanking you,
For any queries feel free to contact:

Dr. Kantipudi MVV Prasad (Workshop Co-Ordinator)
M: 09586408854 (e-mail: mvvprasad@sreyas.ac.in)

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Estimation Of expenses to organize the Scilab workshop

Course Fee

Every participant has to pay Rs. 100 as the course fee to IIT Bombay at the time of online registration. On the day of the workshop i.e., on 4 May 2018, they have to pay Rs. 400 to the Remote Centre that they would be allocating, to defray the cost of organising the workshop lunch, and coffee/tea.

Expense per Person	
Scribbling Pad	: 20 R.S
Tea (2 Times)	: 16 R.S
Snacks (2 Times)	: 30 R.S
Lunch	: 120 R.S
Total	: 186 R.S

Approx.: 200 R.S

Expected no of participants: In-house (40) [ECE (30) +ME (05) + CSE (02) + CIVIL (03)]
Outside (20) [Registered till date: 07]

Total (60)

Income:

Registration Fee (In House) : 200----------> 40 * 200 = 8,000 R.S

Registration Fee (Outside) : 400----------> 20 * 400 = 8,000 R.S

Total Income 16,000 R.S

(-) Expense: 12,000 R.S

4,000 R.S

Breakeven: 50 Participants [In-house (40) + Outside (20)]

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Certificate of Participation

This is to certify that

Sanjana Mathew

from Sreyas Institute of Engineering and Technology, Hyderabad

attended the Scilab Workshop on 4th May 2019, organised by
Sreyas Institute of Engineering and Technology, Hyderabad, Ranga Reddy.

This training was organised by the Teaching Learning Centre (ICT) at IIT Bombay, funded by the Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNMTT).

Prof. Kannan Moudgalya
Principal Investigator
TLC(ICT) PMMMNMTT

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This training was made possible with help from Spoken Tutorial and FOSSEE Projects, at IIT Bombay. These projects are funded by the National Mission on Education through ICT, MHRD, Govt. of India.

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This is to certify that

V. A. Sankar Ponnapalli

from Sreyas Institute of Engineering and Technology, Hyderabad

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Vijay Goud G

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S V Maruthi Rao Chinnam

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Certificate of Participation

This is to certify that

Basavaraj

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Certificate of Participation

This is to certify that

Gundu Ramachandra Kumar

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Manohar Kotha

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This is to certify that

Mahesh Kusuma

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This is to certify that

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Certificate of Participation

This is to certify that

Aqeel Shaik

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