Shree Rahul Education Society's (Regd.)
SHREE L. R. TIWARI COLLEGE OF ENGINEERING
Kanakia Park, Near Commissioner's Bungalow, Mira Road (East), Thane 401107, Maharashtra
(Approved by AICTE, Govt. of Maharashtra & Affiliated to University of Mumbai)
NAAC Accredited | ISO 9001:2015 Certified
Tel. No.: 022-28120144 / 022-28120145 | Email: slrtce@rahuleducation.com | Website: www.slrtce.in

FOSSEE CLUB

INDEX

Sr No.	Title
1	About FOSSEE
2	Events conducted
3	OST Workshop certificates
4	Students achivements Certificates

SHREE L. R. TIWARI COLLEGE OF ENGINEERING ★ Mira Road (E)

PRINCIPAL
Shree L. R. Tiwari College of Engineering
Kanakiya Park, Mira Road (E).

ABOUT FOSSEE

FOSSEE (Free/Libre and Open Source Software for Education) project promotes the use of FLOSS tools to improve the quality of education in our country. We aim to reduce dependency on proprietary software in educational institutions. We encourage the use of FLOSS tools through various activities to ensure commercial software is replaced by equivalent FLOSS tools.

FOSSEE CLUB

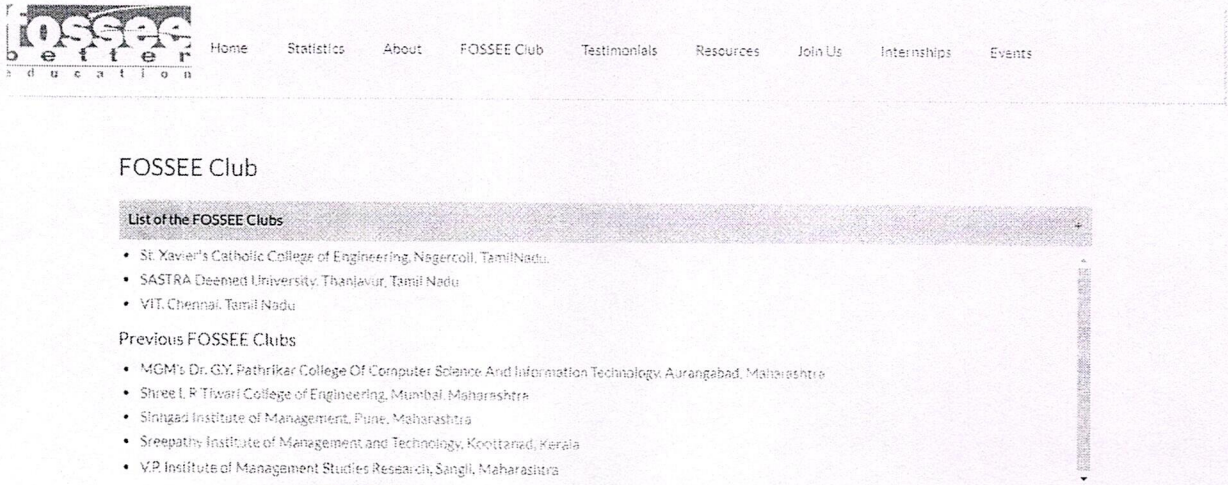
FOSSEE Club in our institution that will promote and contribute to the various activities of the FOSSEE project. The club can also participate in FOSSEE workshops, conferences apart from these activities subject to that the event is based on any one of the software promoted by the FOSSEE Project.

BENEFITS OF FOSSEE

1. Get recognised as a FOSSEE club
2. Collaborate with various activities of the FOSSEE project
3. Get your contributions displayed on FOSSEE website
4. Proficient student contributors get direct entry to a relevant job fair hosted by the FOSSEE project annually
5. Preference to the proficient student contributors in FOSSEE Summer Fellowship
6. Receive an annual certificate of recognition by FOSSEE for significant contributions
7. Get NAAC accreditation by participating in FOSSEE activities

SLRTCE is part of FOSSEE CLUB

https://fossee.in/fossee-club



SHREE L. R. TIWARI COLLEGE OF ENGINEERING ★ Mira Road (E)

PRINCIPAL
Shree L. R. Tiwari College of Engineering
Kanakiya Park, Mira Road (E).

FOSSEE Club

List of the FOSSEE Clubs

- St. Xavier's Catholic College of Engineering, Nagercoil, Tamil Nadu.
- SASTRA Deemed University, Thanjavur, Tamil Nadu
- VIT, Chennai, Tamil Nadu

Previous FOSSEE Clubs

- MGM's Dr. G.Y. Pathrikar College Of Computer Science And Information Technology, Aurangabad, Maharashtra
- Shree L R Tiwari College of Engineering, Mumbai, Maharashtra
- Sinhgad Institute of Management, Pune, Maharashtra
- Sreepathy Institute of Management and Technology, Koottanad, Kerala
- V.P. Institute of Management Studies Research, Sangli, Maharashtra

What is a FOSSEE Club?

How can my institute become a FOSSEE Club?

SHREE L. R. TIWARI COLLEGE OF ENGINEERING ★ Mira Road (E)

PRINCIPAL
Shree L. R. Tiwari College of Engineering
Kanakiya Park, Mira Road (E).

What is a FOSSEE Club?

FOSSEE Club is any institution that will promote and contribute to the various activities of the FOSSEE project. The club can also undertake events apart from these activities subject to that the event is based on any one of the software promoted by the FOSSEE Project. You also have to get prior approval for the event from the FOSSEE Project. For more details on this please refer to the rules and regulations section given below.The club may also have to contribute to the development of open-source software through FOSSEE.

How can my institute become a FOSSEE Club?

Please see the details of the activities given in this page: https://fossee.in. After a substantial contribution to the FOSSEE Project, as 'per' the criteria given below, they can become a FOSSEE Club by signing the Expression of Interest.

Criteria for becoming a FOSSEE Club (any 3 or more):

A. 10 TBC in Scilab / R / OpenModelica etc
B. 5 LM in Scilab / R / OpenModelica / OpenFOAM etc
C. 5 No of case studies in OpenFOAM / Scilab / R
D. 10 No of Circuit Simulation in eSim
E. 10 No of Flowsheets / Custom models in DWSIM and OM
F. 5 workshops on Python

SHREE L. R. TIWARI COLLEGE OF ENGINEERING
Mira Road (E)

PRINCIPAL
Shree L. R. Tiwari College of Engineering
Kanakiya Park, Mira Road (E).

EVENTS CONDUCTED

1.Conducted One day workshop on "Open source Technologies" on 20th December 2022

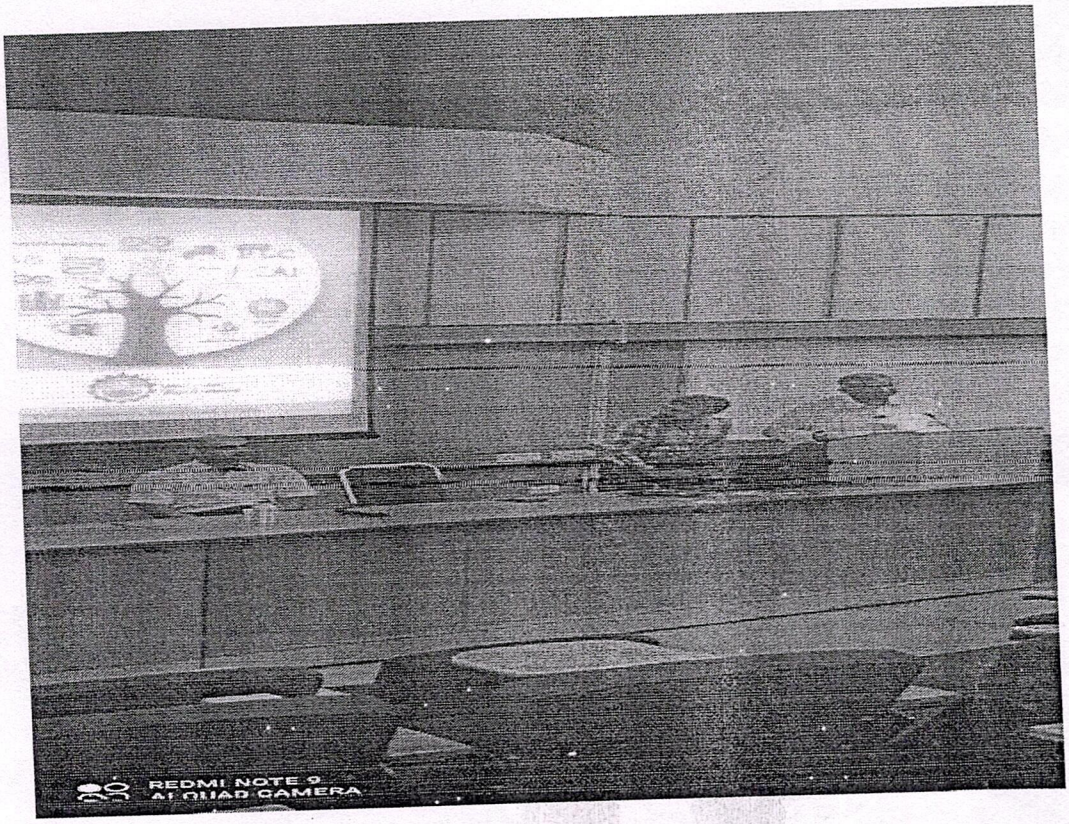
Time:-9:30 am onward

Venue:- FC Kohli Auditorium,IIT Bombay

This event aim to create awareness about open source software,their benefits and how one can contribute to the open source community.This event is exclusively to faculty of Mumbai University to exposure to various open source software of different steams.

SHREE L. R. TIWARI COLLEGE OF ENGINEERING ★ Mira Road (E)

PRINCIPAL
Shree L. R. Tiwari College of Engineering
Kanakiya Park, Mira Road (E).



2.Conducted 3 Days Online workshop on the basics of CFD
Date:-11,12,13 January ,2023
Time: 10:00am to 5:00pm
ConThe objective of the course is to train students/college teachers/design professionals to solve computational fluid dynamics (CFD) problems while understanding the intricacies involved in such simulations through a robust at the same time easy to use CFD tool box.

At the end of this workshop, participants will:

- learn how to set up, view the files and run a case in OpenFOAM
- become familiar with pre-processing tools and will be able to generate mesh, set the boundary & initial conditions, learn simulation control etc.
- learn how to plot and visualize the results in ParaView.
- learn how to use different flow and heat transfer models (laminar, turbulence model, convection, conduction etc) in a simulation.
- also learn how to establish grid independence.

Benefits of Workshop

On successful completion of the workshop, participants will be able to

- Learn fundamentals of CFD using OpenFOAM
- Learn to simulate flow and heat transfer problem in OpenFOAM
- Learn essentials of post-processing
- Certificate for attending the 3 day OpenFOAM workshop

Teaching faculty

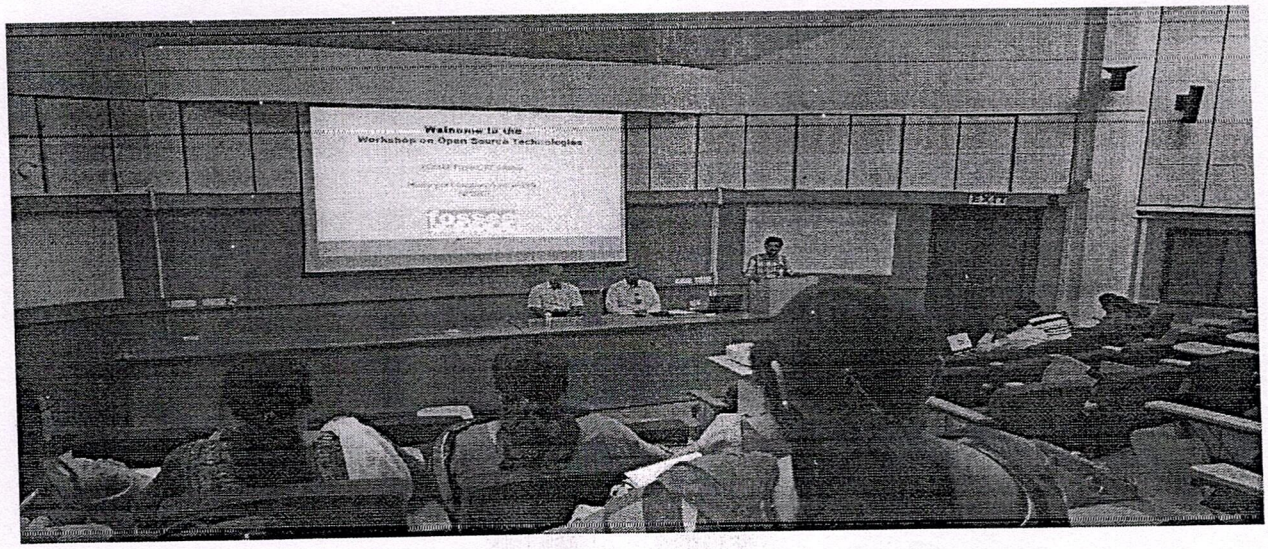
- **Prof. Janani Srree Murallidharan**, Faculty, Mechanical Engineering, IIT Bombay
- **Prof. Manaswita Bose**, Faculty, Energy Science Engineering, IIT Bombay
- **FOSSEE**, IIT Bombay
- **Prof. Harikrishnan**, Cochin University of Science and Technology
- **Prof. Dhiraj Garg**, Shiv Nadar University
- **Prof. Raghavendra Gupta**, IIT Guwahati
- **Prof. Naren**, Sastra Deemed to be University

How to apply:-The application will be strictly online, and no other mode of application will be entertained. The link for online registration is:

https://www.it.iitb.ac.in/nmeict/workshopContent.html?workshopid=cv0b5K-ocMFx5waDbKRMaA&category=UubpVTjA3FS-DQx8uW4rlA

SHREE L. R. TIWARI COLLEGE OF ENGINEERING
Mira Road (E)

PRINCIPAL
Shree L. R. Tiwari College of Engineering
Kanakiya Park, Mira Road (E).


Welcome to the
Workshop on Open Source Technologies

Shree Rahul Education Society's (Regd.)
SHREE L. R. TIWARI
COLLEGE OF ENGINEERING
(Approved by AICTE & DTE, Maharashtra State & Affiliated to University of Mumbai)
NAAC Accredited, NBA Accredited Program, ISO 9001:2015 Certified | DTE Code No. : 3423
Minority Status (Hindi Linguistic)

Report of Workshop

Title of the Session: "Open source Technologies"

Date: 20th December 2022

Timings: 9:30 am onwards

Venue: FC Kohli Auditorium,IIT Bombay

Number of participants: 32

Speaker and Designation: Dr.Kannan M Moudgalya and FOSSEE Team

Objectives:

1) To create awareness about the Open source tools used for different streams.
2) To provide knowledge about scope and competencies of open source tools in the Engineering programme.
3) To know the open source tool capabilities in Research.

Target Groups: EXTC ,COMP and IT Faculties from all colleges under Mumbai University

Knowledge acquired during the seminar:

The introductory remark was given by Prof. Kumar Appaiah (EE, IIT Bombay). He enlightened the audience on the importance of Free/Libre Open Source Software and its capabilities. Dr. Deven Shah, Principal, SLRTCE addressed the participants and insisted on the need for such a workshop. Prof. Madhu Belur (EE,IIT Bombay) addressed the participants about the FOSSEE project in detail; gave some real life examples and stressed on the importance of using Free/Libre Open Source Software in academia. FOSSEE team then gave an insight on various open source tools like Osdag, Scilab and eSim and also took the Hands-on training on these softwares. Mr. Nagesh and Mrs. Firuzza delivered a session on Arduino on cloud and esim on cloud. Mr. Rajesh Khushalkar (Sr. Manager FOSSEE) spoke about various Open Hardware

SHREE L. R. TIWARI COLLEGE OF ENGINEERING ★ Mira Road (E)

PRINCIPAL
Shree L. R. Tiwari College of Engineering
Kanakiya Park, Mira Road (E).

initiatives of the FOSSEE project. Dr. Subbhulakshmi (VIT University, Chennai) delivered a session on 'Incorporating open source software in academics and improving NAAC credits'

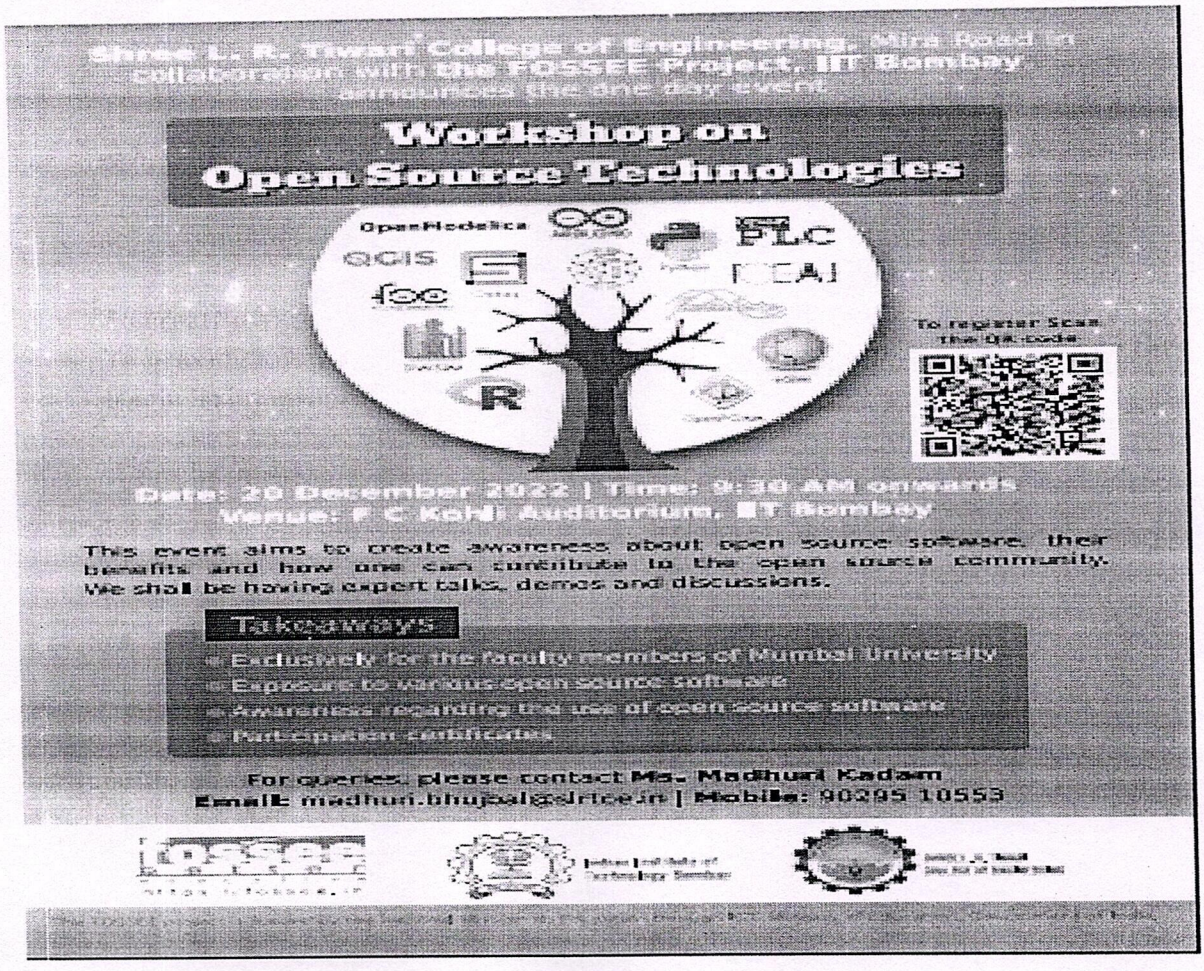
Prof. Inderjit Dhanjal (K. J. Somaiyya College, Mumbai) and Mrs. Madhuri Kadam (SLRTCE) explained the benefits of contributing to the FOSSEE project.

Lastly the audience was addressed by Prof. Kannan Moudgalya (P.I. FOSSEE)

Outcomes of seminar:

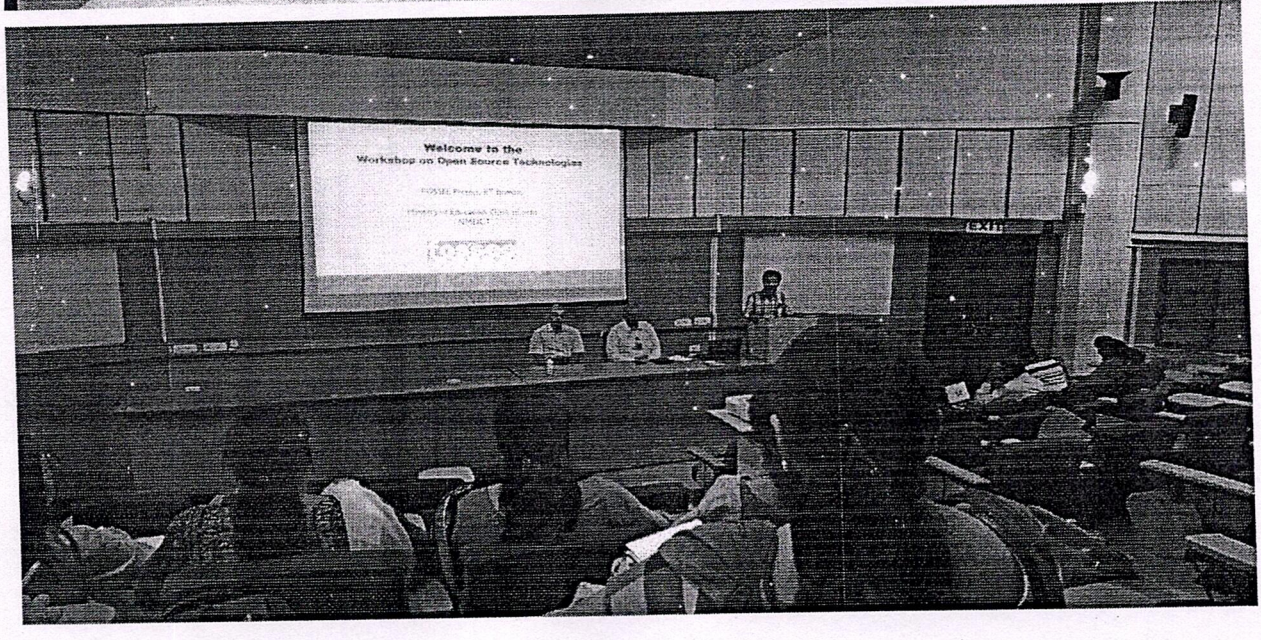
- **To create awareness about the Open source tools.**
- **To provide knowledge about scope and competencies of open source tools in the Engineering programme.**

Photographs of the event:



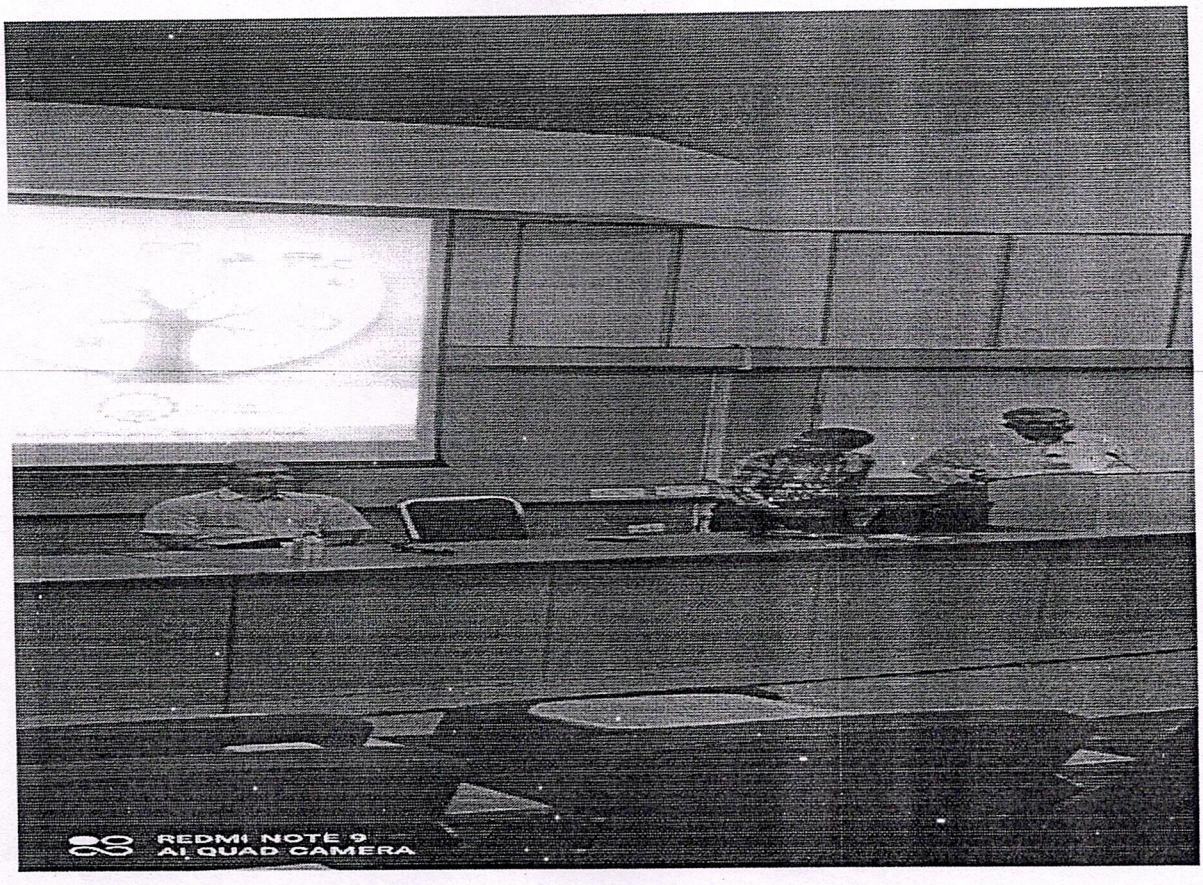
SHREE L. R. TIWARI COLLEGE OF ENGINEERING ★ Mira Road (E)

PRINCIPAL
Shree L. R. Tiwari College of Engineering
Kanakiya Park, Mira Road (E).



SHREE L. R. TIWARI COLLEGE OF ENGINEERING ★ Mira Road (E)

PRINCIPAL
Shree L. R. Tiwari College of Engineering
Kanakiya Park, Mira Road (E).

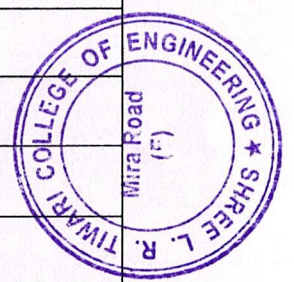


SHREE L. R. TIWARI COLLEGE OF ENGINEERING ★ Mira Road (E)

PRINCIPAL
Shree L. R. Tiwari College of Engineering
Kanakiya Park, Mira Road (E).

Sl. No	Full Name	Email Address	Name of your Institution/Organization	Present
2	Anup Shrikant Kunte	anup.kunte@kgce.edu.in	Konkan Gyanpeeth College of Engineering Karjat	yes
3	Dr. Radhika Kotecha	radhika.kotecha@somaiya.edu	K. J. Somaiya Institute of Engineering and Information Technology, Mumbai	yes
6	Sanjaykumar Sonar	rajruchi1971@gmail.com	Konkan Gyanpeeth College of Engineering, Karjat	yes
9	Dr.Sanjay B.Waykar	sbwaykar.mgmcet.it@gmail.com	MGM College of Engineering and Technology, NaviMumbai	yes
10	Dr.K.Lakshmisudha	lakshmi.sudha@siesgst.ac.in	SIES Graduate School of Technology	yes
13	Aparna Majare	aparna.majare@slrtce.in	Shree L.R.Tiwari College of Engineering	yes
15	Snehal shah	snehal.shah@slrtce.in	Shree L.R.Tiwari College of Engineering	yes
16	Mrs. Namrata Kulkarni	namrata.kulkarni@slrtce.in	Shree L.R.Tiwari College of Engineering	yes
18	Swapna Mahendra Patil	swapna.patil@slrtce.in	Shree L.R.Tiwari College of Engineering	yes
21	Rahmani Naveed Akhtar	rahmaninaveed1981@gmail.com	Alamuri Ratnamala Institute of Engineering and Technology	yes
24	Prajakta Harshad Borole	prajaktaborole@atharvacoe.ac.in	Atharva College of Engineering	yes
43	Prof.Ashwini Rajendra Kachare	kachareashu014@gmail.com	Atharva College of Engineering	yes
48	Sweta Padman	sweta.parkhedkar@slrtce.com	Shree L.R.Tiwari College of Engineering	yes
51	Madhuri Hemant Kadam	madhurib.saksham@gmail.com	Shree L.R.Tiwari College of Engineering	yes
54	Menka Singh	menka.singh@slrtce.in	Shree L.R.Tiwari College of Engineering	yes
56	Mrs. Aboli Moharil	aboli.moharil@slrtce.in	Shree L.R. Tiwari College of Engineering	yes
62	Dr.Deven Shah	principal@slrtce.in	Shree.L.R.Tiwari College of Engineering	yes
63	Arun Kulkarni	kkkarun@yahoo.com	Thadomal Shahani Engineering College	Yes

PRINCIPAL
Shree L. R. Tiwari College of Engineering
Kanakiya Park, Mira Road (E).



65	Mrs Dipali Kiran Bhole	dipali.bhole@slrtce.in	Shree L.R.Tiwari College of Engineering	yes
66	Mrs Harsha Dave	harsha.dave@slrtce.in	Shree L.R.Tiwari College of Engineering	yes
69	Neelam Phadnis	Neelam.phadnis@slrtce.in	Shree L.R.Tiwari College of Engineering	yes
70	Uma Goradiya	uma.goradiya@slrtce.in	Shree L.R.Tiwari College of Engineering	yes
71	Aabha Amey Patil	aabha.patil@slrtce.in	Shree L.R.Tiwari College of Engineering	yes
72	Pravin Jangid	pravinjangid@gmail.com	Shree L.R.Tiwari College of Engineering	yes
75	Dr. Vinayak Dagadu Shinde	vdshinde@gmail.com	Shree L.R.Tiwari College of Engineering	yes
80	Pranali Prabhakar Bhusare	bpranali05@gmail.com	Atharva college of Engineering	yes
82	Ankit Anand	ankitanandmgmcetit@gmail.com	MGMCET, Navi Mumbai	yes
83	Shivashankar Bhutekar	shiv.bhutekar@gmail.com	MGMCET, Navi Mumbai	yes
84	Smita Amol Pawar	smita.kharade@dmce.ac.in	Datta Meghe College of Engg	yes
85	Dipti Harshal Kale	dipti.kale@slrtce.in	Shree L.R.Tiwari College of Engineering	yes
90	Manya Gidwani	manya.gidwani@sakec.ac.in	Shah and Anchor Kutchhi Engineering College	yes
93	Manasi Chouk	manasi.chauk@slrtce.in	Shree L.R.Tiwari College of Engineering	yes
1	Archana	archanashirke25@gmail.com	Fr. C. Rodrigues Institute of Technology	
4	Mrs.Vaishali Anil Shirsath	vaishali.shirsath@vcet.edu.in	Vidyavardhinis College of Engineering and Technology	
5	Sanketi Paresh Raut	sanketi.raut@universal.edu.in	Universal College of Engineering	
7	SANJAY MADHUKAR PATIL	sanjay.patil@kgce.edu.in	Konkan Gyanpeeth College of Engineering, Karjat	
8	Mrs. Anagha Jayesh Patil	anagha.patil@vcet.edu.in	Vidyavardhinis College of Engineering and Technology, Vasai	

PRINCIPAL
Shree L.R. Tiwari College of Engineering
Kanakiya Park, Mira Road (E).

SHREE L. R. TIWARI COLLEGE OF ENGINEERING ★ Mira Road (E)

11	Anuradha Lumba	anuradhakapoor@atharvacoe.ac.in	Atharva College of Engineering	
12	Dr. JYOTI GANGANE	jgangane@vishwaniketan.edu.in	Vishwaniketan's-iMEET, Khalapur	
14	Shruti Patil	shruti.patil@slrtce.in	Shree L.R.Tiwari College of Engineering	
17	Dr. Rahul V. Awathankar	rahul.awathankar@sitrc.org	Sandip Institute of Technology and Research Centre, Nashik	
19	Manoj R Mishra	tpoarmiet@gmail.com	Alamuri Ratnamala Institute of Engineering and Technology Shahapur	
20	Anita Dayanand Mhatre	anita.mhatre@dmce.ac.in	Datta Meghe College Of Engineering Thane	
22	Manoj R Mishra	mishramr11@gmail.com	Alamuri Ratnamala Institute of Engineering and Technology Shahapur Thane	
23	TUSHAR SATYAWAN MALPEKA	tusharmalpekar@gmail.com	Metropolitan institute of technology and management	
25	Madhusudan Arvind Mohite	mamohite@git-india.edu.in	GHARDA INSTITUTE of technology, Lavel	
26	Nazahat Balur	nazahat.balur@mctrgit.ac.in	Rajiv Gandhi Institute of Technology Mumbai	
27	Harshada Sonkamble	sonkambleharshada16@gmail.com	Atma Malik Institute of technology and Research Aghai Shahapur	
28	Anuprita Gawande	anupritagawande01@gmail.com	Shivajirao S.Jondhle College of Engineering Asangaon	
29	Mrs. Dhanashri Patil	dhanashrivarute@gmail.com	Nutan Maharashtra Institute of Engineering and Technology, Talegaon	
30	Hemalata	hemalata.gosavi@comp.sce.edu	Saraswati College of Engineering	
31	Omkar Vijay Patil	ompatil5025@gmail.com	Vishwatmak om gurudev collage of engineering and research centre	
32	Sushant Sukhadeo Gawade	sushant.gawade1@universal.edu.in	Universal college of Engineering	
33	Dinesh Hemant Bhere	deanadmin@bharatedu.co.in	Bharat College of Engineering, Badlapur	
34	Prof. Sonu Vasantrao Khapekar	Sonu.khapekar@nmiet.edu.in	Nutan Maharashtra Institute of Engineering And Technology	
35	Asmita Marathe	asmitamarathe90@gmail.com	NKC Mumbai	

PRINCIPAL
Shree L.R. Tiwari College of Engineering
Kanakiya Park, Mira Road (E).

SHREE L. R. TIWARI COLLEGE OF ENGINEERING ★ Mira Road (E)

36	Suraj Suresh Chaugule	suraj.chaugule@inurture.co.in	NKC Mumbai	
37	MANISHA SHASHANK JADHAV	mjmanishaishika@gmail.com	NAGINDAS KHANDWALA COLLEGE,MALAD	
38	Pawan Arun Gawade	pawangawade1008@gmail.com	JSPM RSCOE Tathwade	
39	Shubhangi Mangesh Verulkar	shubhangi.verulkar@kccemsr.edu.in	K.C.COLLEGE OF ENGINEERING AND MANAGEMENT STUDIES AND	
40	Saurabh Suman	Saurabh.suman@slrtce.in	Shree L.R.Tiwari College of Engineering	
41	Shrishti Bhatia	shrishti.bhatia@thadomal.org	Thadomal Shahani Engineering college	
42	Harsh Namdev Bhor	hbhor@somaiya.edu	K J Somaiya Institute of Engineering and IT	
44	Mr. Abhijit T Somnathe	abhijit.somnathe@slrtce.in	Shree L. R. Tiwari College of Engineering	
45	Sumita kumar	sumitakumar02@gmail.com	Bharati vidyapeeth deemed to be university department of engineering and technology,	
46	Yashika Shardul Vadnerkar	yashikavadnerkar@gmail.com	Bharat college of Engineering, Badlapur.	
47	Nirajsingh R Yeotikar	yeotikarniraj@gmail.com	Theem College of Engineering, Boisar	
49	Viki Tukaram Patil	vikipatil@pvppcoe.ac.in	Vppcoe and VA	
50	TANVI THAKUR	thakurtanvi91@gmail.com	SLRTCE	
52	Anupama Chaurasia	aschaurasia28@gmail.com	K. C. College of Engineering and Management Studies and Research	
53	UTTARA BHATT	uttara.bhatt@thadomal.org	Thadomal Shahani Engg college	
55	Aditya Desai	aditya.d15@yahoo.com	Shree L.R.Tiwari College of Engineering	
57	Mubashir Khan Abdul Rashid Kh	mubashir.khan@theemcoe.org	Theem College of Engineering, Boisar	
58	Mrs. Sonali Abhijeet Padalkar	sonali.padalkar@slrtce.in	Shree L.R.Tiwari College of Engineering	
59	Umesh Shantilal Bhadade	umesh.bhadade@slrtce.in	Shree L.R.Tiwari College of Engineering	

PRINCIPAL
Shree L. R. Tiwari College of Engineering
Kanakiya Park, Mira Road (E).

SHREE L. R. TIWARI COLLEGE OF ENGINEERING
Mira Road (E)

60	Shraddha shivaji sandimani	shraddhasandimani@gmail.com	UNIVERSAL COLLEGE OF ENGINEERING	
61	9987528199	anup.kunte@kgce.edu.in	Konkan Gyanpeeth College of engineering Karjat	
64	Durraz Riyaz Tiwale	durraz.tiwale@kgce.edu.in	Konkan Gyanpeeth College of Engineering	
67	Dr.Sanjay B.Waykar	sbwaykar.mgmcet.it@gmail.com	MGMCET NaviMumbai	
68	Savyasaachi Pandit	savyasaachi.pandit@slrtce.in	Shree L.R.Tiwari College of Engineering	
73	Shivashankar J Bhutekar	shiv.bhutekar@gmail.com	Mgmcet	
74	UTTARA BHATT	uttara.bhatt@thadomal.org	Thadomal Shahani engineering college	
76	RAJESH GAIKWAD	rajesh.gaikwad@slrtce.in	Shree L.R.Tiwari College of Engineering	
77	Priyanka Shingane	priyanka.shingane@rait.ac.in	Ramrao Adik Institute of Technology, Nerul	
78	Madhuri Chavan	madhuri.chavan@rait.ac.in	Ramrao Adik Institute of technology, Nerul	
79	Prof.Kirti J.Rajadnya	kjrajadnya@gmail.com	SHIVAJIRAO JONDHALE COLLEGE OF ENGG	
81	Rupali Dhananjay Pashte	rupali.pashte@slrtce.in	Shree L.R.Tiwari College of Engineering	
86	Komal A Champanerkar	komal.champanerkar@slrtce.in	Shree L.R.Tiwari College of Engineering	
87	Aarti Ritesh Putran	aarti.puthran@slrtce.in	Shree L.R.Tiwari College of Engineering	
88	MRS. REENA KOTHARI	reena.ostwal@slrtce.in	Shree L.R.Tiwari College of Engineering	
89	Savyasaachi Pandit	savyasaachi.pandit@slrtce.in	Shree L.R.Tiwari College of Engineering	
91	Maheshwari Jadhav	maheshwari.marne@slrtce.in	Shree L.R.Tiwari College of Engineering	
92	Dr. Maniroja Edinburgh	maniroja@thadomal.org	Thadomal Shahani Engineering College	
94	Dr Roopali Lolage	roopali.lolage@slrtce.in	Shree L.R.Tiwari College of Engineering	

PRINCIPAL
Shree L. R. Tiwari College of Engineering
Kanakiya Park, Mira Road (E).

SHREE L. R. TIWARI COLLEGE OF ENGINEERING ★ Mira Road (E)

Workshop on Open Source Technologies

CERTIFICATE OF PARTICIPATION

This is to certify that

Dr. Vinayak Dagadu Shinde

from **Shree L.R.Tiwari College of Engineering**

has attended the one day Workshop on Open Source Technologies

conducted by the FOSSEE Project, IIT Bombay

in association with Shree L.R.Tiwari College of Engineering

on 20 December 2022.

Prof. Kannan Moudgalya

Principal Investigator - FOSSEE, IIT Bombay

SHREE L. R. TIWARI COLLEGE OF ENGINEERING ★ Mira Road (E)

PRINCIPAL
Shree L. R. Tiwari College of Engineering
Kanakiya Park, Mira Road (E).

7b0bb

fossee better education
https://fossee.in

ENGINEERED FOR EXCELLENCE
SHREE L. R. TIWARI
COLLEGE OF ENGINEERING

The FOSSEE (Free/Libre and Open Source Software for Education) project is funded by the Ministry of Education (MoE), Government of India.
This is a computer generated certificate and requires no signature, to verify scan the QR code or visit: https://fossee.in/certificates/verify

Workshop on Open Source Technologies

CERTIFICATE OF PARTICIPATION

This is to certify that

Dr. Vinayak Dagadu Shinde

from **Shree L.R.Tiwari College of Engineering**

has attended the one day Workshop on Open Source Technologies

conducted by the FOSSEE Project, IIT Bombay

in association with Shree L.R.Tiwari College of Engineering

on 20 December 2022.

Prof. Kannan Moudgalya

Principal Investigator - FOSSEE, IIT Bombay

SHREE L. R. TIWARI COLLEGE OF ENGINEERING Mira Road (E)

PRINCIPAL
Shree L. R. Tiwari College of Engineering
Kanakia Park, Mira Road (E).

7b0bb

fossee better education
https://fossee.in

ENGINEERED FOR EXCELLENCE
SHREE L. R. TIWARI
COLLEGE OF ENGINEERING

The FOSSEE (Free/Libre and Open Source Software for Education) project is funded by the Ministry of Education (MoE), Government of India.

This is a computer generated certificate and requires no signature, to verify scan the QR code or visit: https://fossee.in/certificates/verify

Workshop on Open Source Technologies

CERTIFICATE OF PARTICIPATION

This is to certify that

Aboli Moharil

from **Shree L.R. Tiwari College of Engineering**

has attended the one day Workshop on Open Source Technologies

conducted by the FOSSEE Project, IIT Bombay

in association with Shree L.R.Tiwari College of Engineering

on 20 December 2022.

Prof. Kannan Moudgalya

Principal Investigator - FOSSEE, IIT Bombay

f75b6

fossee better education

https://fossee.in

SHREE L. R. TIWARI COLLEGE OF ENGINEERING

The FOSSEE (Free/Libre and Open Source Software for Education) project is funded by the Ministry of Education (MoE), Government of India.

This is a computer generated certificate and requires no signature, to verify scan the QR code or visit: https://fossee.in/certificates/verify

SHREE L. R. TIWARI COLLEGE OF ENGINEERING Mitra Road (E)

PRINCIPAL
Shree L.R. Tiwari College of Engineering
Kanakiya Park, Mitra Road (E).

Workshop on Open Source Technologies

CERTIFICATE OF PARTICIPATION

This is to certify that

Dipti Harshal Kale

from **Shree L.R.Tiwari College of Engineering**

has attended the one day Workshop on Open Source Technologies

conducted by the FOSSEE Project, IIT Bombay

in association with Shree L.R.Tiwari College of Engineering

on 20 December 2022.

Prof. Kannan Moudgalya

Principal Investigator - FOSSEE, IIT Bombay

SHREE L. R. TIWARI COLLEGE OF ENGINEERING Mira Road (E)

PRINCIPAL
Shree L. R. Tiwari College of Engineering
Kanakiya Park, Mira Road (E).

59c41

fossee better education
https://fossee.in

ENGINEERED FOR EXCELLENCE
SHREE L. R. TIWARI
COLLEGE OF ENGINEERING

The FOSSEE (Free/Libre and Open Source Software for Education) project is funded by the Ministry of Education (MoE), Government of India.

This is a computer generated certificate and requires no signature, to verify scan the QR code or visit: https://fossee.in/certificates/verify

Workshop on Open Source Technologies

CERTIFICATE OF PARTICIPATION

This is to certify that

Swapna Mahendra Patil

from **Shree L.R.Tiwari College of Engineering**

has attended the one day Workshop on Open Source Technologies

conducted by the FOSSEE Project, IIT Bombay

in association with Shree L.R.Tiwari College of Engineering

on 20 December 2022.

Prof. Kannan Moudgalya

Principal Investigator - FOSSEE, IIT Bombay

SHREE L. R. TIWARI COLLEGE OF ENGINEERING (E) INSTITUTE CODE

PRINCIPAL
Shree L. R. Tiwari College of Engineering
Kanakiya Park, Mira Road (E).

d6d96

fossee better education
https://fossee.in

ENGINEERED FOR EXCELLENCE
SHREE L. R. TIWARI
COLLEGE OF ENGINEERING

The FOSSEE (Free/Libre and Open Source Software for Education) project is funded by the Ministry of Education (MoE), Government of India.

This is a computer generated certificate and requires no signature, to verify scan the QR code or visit: https://fossee.in/certificates/verify

Workshop on Open Source Technologies

CERTIFICATE OF PARTICIPATION

This is to certify that

Aparna Majare

from **Shree L.R.Tiwari College of Engineering**

has attended the one day Workshop on Open Source Technologies

conducted by the FOSSEE Project, IIT Bombay

in association with Shree L.R.Tiwari College of Engineering

on 20 December 2022.

Prof. Kannan Moudgalya

Principal Investigator - FOSSEE, IIT Bombay

4eacc

fossee better education

https://fossee.in

SHREE L. R. TIWARI COLLEGE OF ENGINEERING

The FOSSEE (Free/Libre and Open Source Software for Education) project is funded by the Ministry of Education (MoE), Government of India.

This is a computer generated certificate and requires no signature, to verify scan the QR code or visit: https://fossee.in/certificates/verify

SHREE L. R. TIWARI COLLEGE OF ENGINEERING

PRINCIPAL

Shree L. R. Tiwari College of Engineering

Kanakia Park, Mira Road (E).

Workshop on Open Source Technologies

CERTIFICATE OF PARTICIPATION

This is to certify that

Snehal Shah

from **Shree L.R.Tiwari College of Engineering**

has attended the one day Workshop on Open Source Technologies

conducted by the FOSSEE Project, IIT Bombay

in association with Shree L.R.Tiwari College of Engineering

on 20 December 2022.

Prof. Kannan Moudgalya

Principal Investigator - FOSSEE, IIT Bombay

0e951

fossee better education

https://fossee.in

SHREE L. R. TIWARI COLLEGE OF ENGINEERING

The FOSSEE (Free/Libre and Open Source Software for Education) project is funded by the Ministry of Education (MoE), Government of India.

This is a computer generated certificate and requires no signature, to verify scan the QR code or visit: https://fossee.in/certificates/verify

SHREE L. R. TIWARI COLLEGE OF ENGINEERING

PRINCIPAL

Shree L. R. Tiwari College of Engineering

Kanakia Park, Mira Road (E).

Workshop on Open Source Technologies

CERTIFICATE OF PARTICIPATION

This is to certify that

Sweta Padman

from **Shree L.R.Tiwari College of Engineering**

has attended the one day Workshop on Open Source Technologies

conducted by the FOSSEE Project, IIT Bombay

in association with Shree L.R.Tiwari College of Engineering

on 20 December 2022.

Prof. Kannan Moudgalya

Principal Investigator - FOSSEE, IIT Bombay

36d15

https://fossee.in

SHREE L. R. TIWARI
COLLEGE OF ENGINEERING

The FOSSEE (Free/Libre and Open Source Software for Education) project is funded by the Ministry of Education (MoE), Government of India.

This is a computer generated certificate and requires no signature, to verify scan the QR code or visit: https://fossee.in/certificates/verify

SHREE L. R. TIWARI COLLEGE OF ENGINEERING

PRINCIPAL

Shree L. R. Tiwari College of Engineering
Kanakia Park, Mira Road (E)

Workshop on Open Source Technologies

CERTIFICATE OF PARTICIPATION

This is to certify that

Menka Singh

from **Shree L.R.Tiwari College of Engineering**

has attended the one day Workshop on Open Source Technologies

conducted by the FOSSEE Project, IIT Bombay

in association with Shree L.R.Tiwari College of Engineering

on 20 December 2022.

Prof. Kannan Moudgalya

Principal Investigator - FOSSEE, IIT Bombay

SHREE L. R. TIWARI COLLEGE OF ENGINEERING ★ Mira Road (E)

PRINCIPAL
Shree L. R. Tiwari College of Engineering
Kanakiya Park, Mira Road (E).

8c010

fossee better education
https://fossee.in

ENGINEERED FOR EXCELLENCE
SHREE L. R. TIWARI
COLLEGE OF ENGINEERING

The FOSSEE (Free/Libre and Open Source Software for Education) project is funded by the Ministry of Education (MoE), Government of India.
This is a computer generated certificate and requires no signature, to verify scan the QR code or visit: https://fossee.in/certificates/verify

Workshop on Open Source Technologies

CERTIFICATE OF PARTICIPATION

This is to certify that

Aabha Amey Patil

from **Shree L.R.Tiwari College of Engineering**

has attended the one day Workshop on Open Source Technologies

conducted by the FOSSEE Project, IIT Bombay

in association with Shree L.R.Tiwari College of Engineering

on 20 December 2022.

Prof. Kannan Moudgalya

Principal Investigator - FOSSEE, IIT Bombay

SHREE L. R. TIWARI COLLEGE OF ENGINEERING Mira Road (E) PRINCIPAL Shree L. R. Tiwari College of Engineering Kanakiya Park, Mira Road (E).

d427f

fossee better education https://fossee.in

ENGINEERED FOR EXCELLENCE

SHREE L. R. TIWARI COLLEGE OF ENGINEERING

The FOSSEE (Free/Libre and Open Source Software for Education) project is funded by the Ministry of Education (MoE), Government of India.

This is a computer generated certificate and requires no signature, to verify scan the QR code or visit: https://fossee.in/certificates/verify

Workshop on Open Source Technologies

CERTIFICATE OF PARTICIPATION

This is to certify that

Dipali Kiran Bhole

from **Shree L.R.Tiwari College of Engineering**

has attended the one day Workshop on Open Source Technologies

conducted by the FOSSEE Project, IIT Bombay

in association with Shree L.R.Tiwari College of Engineering

on 20 December 2022.

Prof. Kannan Moudgalya

Principal Investigator - FOSSEE, IIT Bombay

b2fb5

fossee better education

https://fossee.in

SHREE L. R. TIWARI COLLEGE OF ENGINEERING

The FOSSEE (Free/Libre and Open Source Software for Education) project is funded by the Ministry of Education (MoE), Government of India.

This is a computer generated certificate and requires no signature, to verify scan the QR code or visit: https://fossee.in/certificates/verify

SHREE L. R. TIWARI COLLEGE OF ENGINEERING (F) Mira Road

PRINCIPAL

Shree L. R. Tiwari College of Engineering

Kanakiya Park, Mira Road (E).

Workshop on Open Source Technologies

CERTIFICATE OF PARTICIPATION

This is to certify that

Harsha Dave

from **Shree L.R.Tiwari College of Engineering**

has attended the one day Workshop on Open Source Technologies

conducted by the FOSSEE Project, IIT Bombay

in association with Shree L.R.Tiwari College of Engineering

on 20 December 2022.

Prof. Kannan Moudgalya

Principal Investigator - FOSSEE, IIT Bombay

SHREE L. R. TIWARI COLLEGE OF ENGINEERING (E) MIRA ROAD

PRINCIPAL
Shree L. R. Tiwari College of Engineering
Kanakiya Park, Mira Road (E).

ea790

fossee better education
http://fossee.in

ENGINEERED FOR EXCELLENCE
SHREE L. R. TIWARI
COLLEGE OF ENGINEERING

The FOSSEE (Free/Libre and Open Source Software for Education) project is funded by the Ministry of Education (MoE), Government of India.

This is a computer generated certificate and requires no signature, to verify scan the QR code or visit: https://fossee.in/certificates/verify

Workshop on Open Source Technologies

CERTIFICATE OF PARTICIPATION

This is to certify that

Manasi Chouk

from **Shree L.R.Tiwari College of Engineering**

has attended the one day Workshop on Open Source Technologies

conducted by the FOSSEE Project, IIT Bombay

in association with Shree L.R.Tiwari College of Engineering

on 20 December 2022.

Prof. Kannan Moudgalya

Principal Investigator - FOSSEE, IIT Bombay

SHREE L. TIWARI COLLEGE OF ENGINEERING

PRINCIPAL
Shree L. R. Tiwari College of Engineering
Kanakiya Park, Mira Road (E).

d5e3e

fossee better education
https://fossee.in

ENGINEERED FOR EXCELLENCE
SHREE L. R. TIWARI
COLLEGE OF ENGINEERING

The FOSSEE (Free/Libre and Open Source Software for Education) project is funded by the Ministry of Education (MoE), Government of India.

This is a computer generated certificate and requires no signature, to verify scan the QR code or visit: https://fossee.in/certificates/verify

Workshop on Open Source Technologies

CERTIFICATE OF PARTICIPATION

This is to certify that

Aparna Majare

from **Shree L.R.Tiwari College of Engineering**

has attended the one day Workshop on Open Source Technologies

conducted by the FOSSEE Project, IIT Bombay

in association with Shree L.R.Tiwari College of Engineering

on 20 December 2022.

Prof. Kannan Moudgalya

Principal Investigator - FOSSEE, IIT Bombay

SHREE L. R. TIWARI COLLEGE OF ENGINEERING

PRINCIPAL
Shree L. R. Tiwari College of Engineering
Kanakiya Park, Mira Road (E).

4eacc

fossee better education
https://fossee.in

ENGINEERED FOR EXCELLENCE
SHREE L. R. TIWARI
COLLEGE OF ENGINEERING

The FOSSEE (Free/Libre and Open Source Software for Education) project is funded by the Ministry of Education (MoE), Government of India.

This is a computer generated certificate and requires no signature, to verify scan the QR code or visit: https://fossee.in/certificates/verify

Azadi Ka Amrit Mahotsav

Mixed Signal SoC design Marathon using eSim & SKY130

Certificate of Participation

14c8b

SHREE L. R. TIWARI COLLEGE OF ENGINEERING ★ Mira Road (E)

This is to certify that **Abhinav Pandey** from **Shree LR Tiwari college Engineering** has submitted the circuit **Serializer Design With MUX 41 And LVDS Driver** in the **Mixed Signal SoC design Marathon using eSim and SKY130.** The submission was judged under the **Excellent*** category. The work done is available at **https://esim.fossee.in**.

The Marathon was conducted in the month of **September - October 2022** for a duration of 3 weeks. This was an initiative of the FOSSEE (Free/Libre and Open Source Software in Education) Project, IIT Bombay in association with VLSI System Design Corp. Pvt. Ltd. and Google Open Source.

PRINCIPAL
Shree L. R. Tiwari College of Engineering
Kanakiya Park, Mira Road (E).

Prof. Kannan Moudgalya
Principal Investigator - FOSSEE
IIT Bombay

Kunal P Ghosh
Co-Founder, VLSI System Design Corp. Pvt. Ltd.

Indian Institute of Technology Bombay

fossee better education

VLSI System Design

Chips to Startup Programme
An initiative by Ministry of Electronics and IT, Government of India

Spoken Tutorial

* The winners were grouped into 4 categories: Outstanding/ Excellent/ Very Good/ Good. This is a computer generated certificate and requires no signature. To verify, scan the QR code or visit: https://fossee.in/certificates/verify

The FOSSEE project is funded by the National Mission on Education through ICT, Ministry of Education(MoE), Govt. of India.

OpenFOAM Workshop Certificate

This is to certify that

Mangesh Prajapati

from Shree L. R. Tiwari College of Engineering, Mira Road

participated in the

online 3 Day Workshop on Basics of CFD and OpenFOAM

during **11 and 13 January 2023**

They attended the workshop registering under the Student category.

This training was organised by the FOSSEE (Free and Open Source Software for Education) and the Spoken Tutorial Projects, MoE, Government of India.

SHREE L. R. TIWARI COLLEGE OF ENGINEERING ★ Mira Road (E)

PRINCIPAL
Shree L. R. Tiwari College of Engineering
Kanakiya Park, Mira Road (E).

Prof. Kannan Moudgalya
Principal Investigator, FOSSEE Project,
IIT Bombay

Prof. Janani Srree Murallidharan
Co-Principal Investigator, CFD Team, FOSSEE
IIT Bombay

Computational Fluid Dynamics

fossee better education
Promoting Free/Libre and Open Source Software

Spoken Tutorial

For details and verification, scan the QR code

6

OpenFOAM Workshop Certificate

This is to certify that

Bhargav Dhanu

from Shree L. R. Tiwari College of Engineering, Mira Road

participated in the

online 3 Day Workshop on Basics of CFD and OpenFOAM

during **11 and 13 January 2023**

They attended the workshop registering under the Student category.

This training was organised by the FOSSEE (Free and Open Source Software for Education) and the Spoken Tutorial Projects, MoE, Government of India.

SHREE L. R. TIWARI COLLEGE OF ENGINEERING ★ ★ Mira Road (E)

PRINCIPAL
Shree L. R. Tiwari College of Engineering
Kanakiya Park, Mira Road (E).

Prof. Kannan Moudgalya
Principal Investigator, FOSSEE Project,
IIT Bombay

Prof. Janani Srree Murallidharan
Co-Principal Investigator, CFD Team, FOSSEE
IIT Bombay

Computational Fluid Dynamics

fossee better education
Promoting Free/Libre and Open Source Software

Spoken Tutorial

For details and verification, scan the QR code

OpenFOAM Workshop Certificate

This is to certify that

Dhiraj Jadhav

from Shree L. R. Tiwari College of Engineering, Mira Road

participated in the

online 3 Day Workshop on Basics of CFD and OpenFOAM

during **11 and 13 January 2023**

They attended the workshop registering under the Student category.

This training was organised by the FOSSEE (Free and Open Source Software for Education) and the Spoken Tutorial Projects, MoE, Government of India.

Prof. Kannan Moudgalya
Principal Investigator, FOSSEE Project,
IIT Bombay

Prof. Janani Srree Murallidharan
Co-Principal Investigator, CFD Team, FOSSEE
IIT Bombay

Computational Fluid Dynamics

Promoting Free/Libre and Open Source Software

Spoken Tutorial

For details and verification, scan the QR code

SHREE L. R. TIWARI COLLEGE OF ENGINEERING ★ Mira Road (E)

PRINCIPAL
Shree L. R. Tiwari College of Engineering
Kanakiya Park, Mira Road (E).

OpenFOAM Workshop Certificate

This is to certify that

Jayant Dhuri

from Shree L. R. Tiwari College of Engineering, Mira Road

participated in the

online 3 Day Workshop on Basics of CFD and OpenFOAM

during **11 and 13 January 2023**

They attended the workshop registering under the Student category.

This training was organised by the FOSSEE (Free and Open Source Software for Education) and the Spoken Tutorial Projects, MoE, Government of India.

SHREE L. R. TIWARI COLLEGE OF ENGINEERING * Mira Road (E)

PRINCIPAL
Shree L. R. Tiwari College of Engineering
Kanakiya Park, Mira Road (E).

Prof. Kannan Moudgalya
Principal Investigator, FOSSEE Project,
IIT Bombay

Prof. Janani Srree Murallidharan
Co-Principal Investigator, CFD Team, FOSSEE
IIT Bombay

Computational Fluid Dynamics

fossee better education
Promoting Free/Libre and Open Source Software

Spoken Tutorial

For details and verification, scan the QR code

FOSSEE Summer Fellowship 2023 Results

Congratulations! All the selected candidates are intimated the results through the email ID used to register for the fellowship.
Following students are selected for the FOSSEE Summer Fellowship 2023.

List III List II List I

Sl. No.	FLOSS name	Name of the fellow	Institute name
1	Osdag	Shamith Nakka	Raghu Engineering College.
2	Osdag	Gotam Gorabh	Indian Institute of Information Technology Kottayam
3	OpenFOAM GUI	Nitin Yadav	Dronacharya College of Engineering, Gurugram
4	OpenFOAM GUI	Diptangshu Dey	National Institute of Technology, Durgapur
5	Freeplane/SOUL	Rohini Rana	St. John College of Engineering and Management, Mumbai
6	Freeplane/SOUL	Abhishek Dhaware	GH Raisoni College of Engg & Management
7	Freeplane/SOUL	Etty Tiwari	Shree L R Tiwari College of Engineering

SHREE L. R. TIWARI COLLEGE OF ENGINEERING ★ Mira Road (E)

PRINCIPAL
Shree L. R. Tiwari College of Engineering
Kanakiya Park, Mira Road (E).

Shree Rahul Education Society's (Regd.)
SHREE L. R. TIWARI COLLEGE OF ENGINEERING
Kanakia Park, Near Commissioner's Bungalow, Mira Road (East), Thane 401107, Maharashtra
(Approved by AICTE, Govt. of Maharashtra & Affiliated to University of Mumbai)
NAAC Accredited | ISO 9001:2015 Certified
Tel. No.: 022-28120144 / 022-28120145 | Email: slrtce@rahuleducation.com | Website: www.slrtce.in

Ref.No: SLRTCE/EXTC/SEM/
Date: 26 July 2022

ATTENTION

"Workshop for Students"

We are pleased to inform you that, Department of Electronics And Telecommunication is organizing a workshop on **"eSim- An Open Source EDA Tool" on 29th July 2022** in association with **IETE Students Forum and FOSSEE IITB** by **Mrs. Madhuri Kadam, Assistant Professor, Shree L.R. Tiwari College of Engineering, Mira Rd.**

The objective of this seminar is to motivate and enhance capabilities of students by providing guidance about the Open Source EDA tool in Academia and Research.

All the students of SE EXTC are informed to attend the workshop.

Details of the workshop are:

Date: 29th July 2022

Time: 3:00pm-5:00pm

Venue: Lab 410

26-07-2022

FOSSEE Club Collaborator

Mrs. Madhuri Kadam

26/07/2022

HOD
Department of Electronics and Telecommunication

Mrs. Aboli Moharil

SHREE L. R. TIWARI COLLEGE OF ENGINEERING ★ Mira Road (E)

PRINCIPAL
Shree L. R. Tiwari College of Engineering
Kanakiya Park, Mira Road (E).

1

Shree Rahul Education Society's (Regd.)
SHREE L. R. TIWARI COLLEGE OF ENGINEERING
Kanakia Park, Near Commissioner's Bungalow, Mira Road (East), Thane 401107, Maharashtra
(Approved by AICTE, Govt. of Maharashtra & Affiliated to University of Mumbai)
NAAC Accredited | ISO 9001:2015 Certified
Tel. No.: 022-28120144 / 022-28120145 | Email: slrtce@rahuleducation.com | Website: www.slrtce.in

Department of Electronics and Telecommunication Engineering

Date: 29/07/2022

Attendance Sheet: "eSim- An Open Source EDA Tool" Workshop

Sr. No.	Name of Student	Sign.	
1	Sharman S. Kadam	Kadam	EXTC
2	Krupesh H. Patil	KHPatil	EXTC
3	Sahil Wadhwana	Sahil	EXTC
4	Sakshi Deore	Deore	EXTC
5	Abha A. Dave	A.A. Dave	EXTC
6	Shivam Bharali	Shivam Bharali	EXTC
7	Ansu Prasad	Prasad	EXTC
8	Gaurav Mishra	Gaurav	EXTC
9	Ayush pimpurkar	Ayush	EXTC
10	Shaikh Navman	Navman	EXTC
11	Ranvir Anchan	Ranvir	EXTC
12	Atul Mandal	Atul	EXTC
13	Harsh Singh	Harsh	EXTC
14	Rahul Mane	Rahul	ECS
15	Darshan Mudi	Darshan	ECS
16	Anurag Patel	Anurag	ECS
17	Taheer Patrawala	Taheer	ECS
18			

SHREE L. R. TIWARI COLLEGE OF ENGINEERING ★ Mira Road (E)

PRINCIPAL
Shree L. R. Tiwari College of Engineering
Kanakiya Park, Mira Road (E).

Shree Rahul Education Society's (Regd.)
SHREE L. R. TIWARI COLLEGE OF ENGINEERING
Kanakia Park, Near Commissioner's Bungalow, Mira Road (East), Thane 401107, Maharashtra
(Approved by AICTE, Govt. of Maharashtra & Affiliated to University of Mumbai)
NAAC Accredited | ISO 9001:2015 Certified
Tel. No.: 022-28120144 / 022-28120145 | Email: slrtce@rahuleducation.com | Website: www.slrtce.in

Department of Electronics and Telecommunication Engineering

Attendance Sheet: "eSim- An Open Source EDA Tool" Workshop

Sr. No.	Name of Student	Sign.
19		
20		
21		
22		
23		
24		
25		
26		
27		

SHREE L. R. TIWARI COLLEGE OF ENGINEERING ★ Mira Road (E)

PRINCIPAL
Shree L. R. Tiwari College of Engineering
Kanakiya Park, Mira Road (E).

8

Shree Rahul Education Society's (Regd.)
SHREE L. R. TIWARI COLLEGE OF ENGINEERING
Kanakia Park, Near Commissioner's Bungalow, Mira Road (East), Thane 401107, Maharashtra
(Approved by AICTE, Govt. of Maharashtra & Affiliated to University of Mumbai)
NAAC Accredited | ISO 9001:2015 Certified
Tel. No.: 022-28120144 / 022-28120145 | Email: slrtce@rahuleducation.com | Website: www.slrtce.in

Narrative Report of Seminar

Title of the Session: eSim- An Open Source EDA Tool

Date: 29th July 2022

Timings: 3:00pm-5:00pm

Venue: Lab 410

Number of participants: 17

Speaker and Designation: Ms. Madhuri Kadam, FOSSEE Club Collaborator, SLRTCE

Objectives:

1) To introduce students with open source EDA tool "eSim" developed at FOSSEE IITB
2) To enable students to use the software to perform Analog and Digital Simulation

Target Groups: EXTC/ECSStudents

Knowledge acquired by the seminar:

eSim (previously known as Oscad / FreeEDA) is a free/libre and open source EDA tool for circuit design, simulation, analysis and PCB design. It is an integrated tool built using free/libre and open source software such as KiCad, Ngspice, Verilator, Makerchip, and GHDL. eSim is released under GPL.

eSim offers similar capabilities and ease of use as any equivalent proprietary software for schematic creation, simulation and PCB design, without having to pay a huge amount of money to procure licenses. Hence it can be an affordable alternative to educational institutions and SMEs. It can serve as an alternative to commercially available/licensed software tools like OrCAD, Xpedition and HSPICE.

Hence Workshop was conducted for the benefit of students By Department of Electronics and Telecommunication in association with IQAC under the guidance of our Principal Dr. Deven Shah.

Ms. Madhuri Kadam started the session with an introduction to various open source tools developed by FOSSEE IITB. She took hands on one example of Analog circuit which involved plotting of response of RC circuit and one on Digital circuit simulation that involved making the

L. R. TIWARI COLLEGE OF ENGINEERING ★ Mira Road (E)

PRINCIPAL
Shree L. R. Tiwari College of Engineering
Kanakiya Park, Mira Road (E).

digital circuit in eSim and simulating it to verify the truth table. The emphasis of the workshop was to make students familiar with the eSim tool environment.

Outcomes of seminar:

- **To create awareness about the eSim - Open source EDA tool.**
- **To provide knowledge about scope and competencies of tools in the Electronics and Telecommunication Engineering programme.**
- **To provide knowledge about the usage of tools to carry out Analog, Digital and Mixed mode simulations.**

Photographs of the event:

SHREE L. R. TIWARI COLLEGE OF ENGINEERING ★ Mira Road (E)

PRINCIPAL
Shree L. R. Tiwari College of Engineering
Kanakiya Park, Mira Road (E).

Shree Rahul Education Society's (Regd.)
SHREE L. R. TIWARI COLLEGE OF ENGINEERING
Kanakia Park, Near Commissioner's Bungalow, Mira Road (East), Thane 401107, Maharashtra
(Approved by AICTE, Govt. of Maharashtra & Affiliated to University of Mumbai)
NAAC Accredited | ISO 9001:2015 Certified
Tel. No.: 022-28120144 / 022-28120145 | Email: slrtce@rahuleducation.com | Website: www.slrtce.in

SHREE L. R. TIWARI COLLEGE OF ENGINEERING
Mira Road (E)

PRINCIPAL
Shree L. R. Tiwari College of Engineering
Kanakiya Park, Mira Road (E).

Shree Rahul Education Society's (Regd.)
SHREE L. R. TIWARI COLLEGE OF ENGINEERING
Kanakia Park, Near Commissioner's Bungalow, Mira Road (East), Thane 401107, Maharashtra
(Approved by AICTE, Govt. of Maharashtra & Affiliated to University of Mumbai)
NAAC Accredited | ISO 9001:2015 Certified
Tel. No.: 022-28120144 / 022-28120145 | Email: slrtce@rahuleducation.com | Website: www.slrtce.in

Feedback Analysis

Overall impact of the seminar

No.of participants: 22

No. of feedback recorded: 16

Tabular Analysis:

Q. no.	Question	Responses				
		Strongly Agree	Agree	Normal	Disagree	Strongly Disagree
1	The Seminar met stated objectives.	69%	31%	-	-	-
2	The Seminar material is of sufficient depth to impart new information	25%	75%	-	-	-
3	The Seminar was advertised and met my expectation.	25%	75%	-	-	-
4	The Seminar was of practical value to me.	19%	81%	-	-	-
5	The instructor was well prepared and organized.	44%	44%	12%	-	-
6	The instructor explained concept clearly and completely.	38%	50%	12%	-	-
7	The instructor appeared to be competent and knowledgeable in this subject.	50%	25%	25%	-	-
8	Communication skills of the instructor.	56%	32%	6%	6%	-

Average Rating of Seminar Feedback Response= **Excellent**

Scale for Opinion of seminar =strongly agree and agree

SHREE L. R. TIWARI COLLEGE OF ENGINEERING ★ Mira Road (E)

PRINCIPAL
Shree L. R. Tiwari College of Engineering
Kanakiya Park, Mira Road (E).

Shree Rahul Education Society's (Regd.)
SHREE L. R. TIWARI COLLEGE OF ENGINEERING
Kanakia Park, Near Commissioner's Bungalow, Mira Road (East), Thane 401107, Maharashtra
(Approved by AICTE, Govt. of Maharashtra & Affiliated to University of Mumbai)
NAAC Accredited | ISO 9001:2015 Certified
Tel. No.: 022-28120144 / 022-28120145 | Email: slrtce@rahuleducation.com | Website: www.slrtce.in

Ref.No: SLRTCE/EXTC/SEM/
Date: 21st July 2022

NOTICE

"Workshop for Faculties"

We are pleased to inform that, Department of Electronics And Telecommunication is organizing a workshop on **"eSim- An Open Source EDA Tool" on 22nd July 2022** by **Mrs. Madhuri Kadam, Assistant Professor, Shree L.R. Tiwari College of Engineering, Mira Rd.**

The objective of this seminar is to motivate and enhance capabilities of Faculties by providing guidance about the Open Source EDA tool in Academia and Research.

All the faculties of EXTC and ECS are requested to attend the workshop.

Details of the workshop are:

Date: 22nd July 2022

Time: 3:00pm-5:00pm

Venue: 410

21-07-2022

FOSSEE Club Coordinator

Mrs. Madhuri Kadam

21/07/2022

HOD
Department of Electronics and Telecommunication

Mrs. Aboli Moharil

SHREE L. R. TIWARI COLLEGE OF ENGINEERING ★ Mira Road (E)

PRINCIPAL
Shree L. R. Tiwari College of Engineering
Kanakia Park, Mira Road (E).

Shree Rahul Education Society's (Regd.)
SHREE L. R. TIWARI COLLEGE OF ENGINEERING
Kanakia Park, Near Commissioner's Bungalow, Mira Road (East). Thane 401107, Maharashtra
(Approved by AICTE, Govt. of Maharashtra & Affiliated to University of Mumbai)
NAAC Accredited | ISO 9001:2015 Certified
Tel. No.: 022-28120144 / 022-28120145 | Email: slrtce@rahuleducation.com | Website: www.slrtce.in

Department of Electronics and Telecommunication Engineering

~~E Sim Workshop Attendance Date : 22~~

Staff List

Sr. No.	Name of faculty	Sign.
1	Dr. Umesh Bhadade	
1	Mrs. Aboli Moharil	
2	Mrs. Zainab Mizwan	
3	Mrs. Shruti Patil	
4	Mrs. Hemangi Satam	
5	Mrs. Snehal Shah	
6	Mrs. Swapna Patil	
7	Mrs. Namrata Kulkarni	
8	Mrs. Aparna Majare	
9	Mrs. Madhuri Kadam	21-07-22
10	Mr. Aditya Desai	21/7/22
11	Mrs. Dipti Kale	21/7
12	Mrs. Sweta Padman	
13	Mrs. Menka Singh	
14	Ms Priyanka malgi	
15	Mrs. Sonali Padalkar	
16	Ms. Maheshwari Marne	
17	Mr. Sandeep Dwivedi	

SHREE L. R. TIWARI COLLEGE OF ENGINEERING ★ Mira Road (E)

PRINCIPAL
Shree L. R. Tiwari College of Engineering
Ka... Mira Road (E).

Shree Rahul Education Society's (Regd.)
SHREE L. R. TIWARI COLLEGE OF ENGINEERING
Kanakia Park, Near Commissioner's Bungalow, Mira Road (East), Thane 401107, Maharashtra
(Approved by AICTE, Govt. of Maharashtra & Affiliated to University of Mumbai)
NAAC Accredited | ISO 9001:2015 Certified
Tel. No.: 022-28120144 / 022-28120145 | Email: slrtce@rahuleducation.com | Website: www.slrtce.in

Department of Electronics and Computer Science Engineering

Staff List

Sr. No.	Name of faculty	Sign.
1	Mrs. Manjiri M. Gogate	
2	Mr. Abhijit T. Somnathe	
3	Mrs. Sheetal Mahadik	
4	Mr. Vinay Kumar Singh	
5	Mrs. Rashmi Maheshwari	
6	Mrs. Khushbu Tikhe	
7	Mrs. Samita Bhandari	
8	Mrs. Tanvi Thakur	
9	Mrs. Rohini Rathod	
10	Mrs. Aarti Naik	

SHREE L. R. TIWARI COLLEGE OF ENGINEERING ★ Mira Road (E)

PRINCIPAL
Shree L. R. Tiwari College of Engineering
Mira Road (E).

Shree Rahul Education Society's (Regd.)

SHREE L. R. TIWARI COLLEGE OF ENGINEERING

Kanakia Park, Near Commissioner's Bungalow, Mira Road (East), Thane 401107, Maharashtra
(Approved by AICTE, Govt. of Maharashtra & Affiliated to University of Mumbai)
NAAC Accredited | ISO 9001:2015 Certified
Tel. No.: 022-28120144 / 022-28120145 | Email: slrtce@rahuleducation.com | Website: www.slrtce.in

Department of Electronics and Computer Science Engineering

eSim Workshop Faculty Date: 22/07/22

Attendance Sheet

Sr. No.	Name of faculty	Sign.
1	Mrs. Manjiri M. Gogate	
2	Mr. Abhijit T. Somnathe	
3	Mrs. Sheetal Mahadik	
4	Mr. Vinay Kumar Singh	
5	Mrs. Rashmi Maheshwari	
6	Mrs. Khushbu Tikhe	
7	Mrs. Samita Bhandari	
8	Mrs. Tanvi Thakur	22/07/22
9	Mrs. Rohini Rathod	
10	Mrs. Aarti Naik	22/07/22

SHREE L. R. TIWARI COLLEGE OF ENGINEERING ★ Mira Road (E)

PRINCIPAL
Shree L. R. Tiwari College of Engineering
Kanakia Park, Mira Road (E).

Shree Rahul Education Society's (Regd.)
SHREE L. R. TIWARI COLLEGE OF ENGINEERING
Kanakia Park, Near Commissioner's Bungalow, Mira Road (East), Thane 401107, Maharashtra
(Approved by AICTE, Govt. of Maharashtra & Affiliated to University of Mumbai)
NAAC Accredited | ISO 9001:2015 Certified
Tel. No.: 022-28120144 / 022-28120145 | Email: slrtce@rahuleducation.com | Website: www.slrtce.in

DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATION

Workshop Proposal

TO,
The Principal,
SLRTCE, Mira Road (East),
Mumbai - 401107.

Subject: Permission for conducting a workshop on "eSim- An Open Source EDA Tool" for faculties and students

Respected Sir,

I, Prof. Mrs. Aboli Moharil, Head of Department of Electronics And Telecommunication, SLRTCE, would like to take your permission on behalf of the department for conducting a **one day workshop** on **"eSim- An Open Source EDA Tool"**. We are conducting this workshop keeping in mind the objective to motivate and enhance capabilities of Faculties and Students by providing guidance about the Open Source EDA tool in Academia and Research.

Below are the tentative details of the event: -

Title of Workshop: eSim- An Open Source EDA Tool

Planned Date: 22nd July 2022 (Friday) for Faculties (EXTC and ECS)

29th July 2022 (Friday) for Students

Duration: 2 hours

Target audience: Faculty members, SE and TE students

Venue: 410

Name of the Speaker with designation: Mrs. Madhuri Kadam, Assistant Professor, Shree L. R. Tiwari College of Engineering.

SHREE L. R. TIWARI COLLEGE OF ENGINEERING ★ Mira Road (E)

PRINCIPAL
Shree L. R. Tiwari College of Engineering
Kanakia Park, Mira Road (E).

Shree Rahul Education Society's (Regd.)
SHREE L. R. TIWARI COLLEGE OF ENGINEERING
Kanakia Park, Near Commissioner's Bungalow, Mira Road (East), Thane 401107, Maharashtra
(Approved by AICTE, Govt. of Maharashtra & Affiliated to University of Mumbai)
NAAC Accredited | ISO 9001:2015 Certified
Tel. No.: 022-28120144 / 022-28120145 | Email: slrtce@rahuleducation.com | Website: www.slrtce.in

Objectives of Workshop:

1) To create awareness about the eSim - Open source EDA tool.
2) To provide knowledge about scope and competencies of tools in the Electronics and Telecommunication Engineering.
3) To provide knowledge about the usage of tools to carry out Analog, Digital and Mixed mode simulations.
4) To know the tool capabilities in terms of Research.

Mapping with PO:

PO2	Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
PO3	Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
PO4	Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
PO12	Recognize the need for, and have the preparation and ability to engage an independent and life-long learning in the broadest context of technological change.

SHREE L. R. TIWARI COLLEGE OF ENGINEERING ★ Mira Road (E)

PRINCIPAL
Shree L. R. Tiwari College of Engineering
Kanakia, Mira Road (E).

Shree Rahul Education Society's (Regd.)
SHREE L. R. TIWARI COLLEGE OF ENGINEERING
Kanakia Park, Near Commissioner's Bungalow, Mira Road (East), Thane 401107, Maharashtra
(Approved by AICTE, Govt. of Maharashtra & Affiliated to University of Mumbai)
NAAC Accredited | ISO 9001:2015 Certified
Tel. No.: 022-28120144 / 022-28120145 | Email: slrtce@rahuleducation.com | Website: www.slrtce.in

Mapping with CO:

ECL301.4	Students will be able to perform experiments to gather appropriate data.
ECL302.2	Design and implement combinational circuits like adder, subtractor, multiplexer, code converters etc.
ECL302.3	Identify and understand working of various types of flip flops and their inter conversions.
ECL302.4	Design and implement basic sequential circuits such as counters, registers etc.
ECL302.5	Acquire basic knowledge of VHDL basic programming.

Expected Outcomes:

Faculties and students will be able to understand:

1) **Usage of tool in various courses of Electronics and Telecommunications Engineering**
2) **Capabilities and Competencies of eSim with respect to other proprietary softwares.**
3) **Scope of eSim tool to carry out research in related areas.**

Yours sincerely,

15/07/2022

Mrs. Aboli Moharil

HOD
Department of Electronics and Telecommunication

L. R. TIWARI COLLEGE OF ENGINEERING ★ Mira Road (E)

PRINCIPAL
Shree L. R. Tiwari College of Engineering
Kanakia Park, Mira Road (E).

Shree Rahul Education Society's (Regd.)
SHREE L. R. TIWARI COLLEGE OF ENGINEERING
(Approved by AICTE & DTE, Govt. of Maharashtra State &
Affiliated to University of Mumbai) NAAC Accredited
ISO 9001 : 2015 Certified • DTE Code No. 3423

Ref. No. : SLRTCE/3611

Date : 12/8/2020

Expression of Interest in becoming a FOSSEE Club

Date: 7 March 2020

Shree L. R. Tiwari College of engineering expressed interest in becoming a FOSSEE Club.

The first **FOSSEE PROPONENT SYMPOSIUM** was organized by FOSSEE, IIT Bombay on 7 March 2020. Based on the discussions and the brainstorming sessions conducted during the symposium, this institute is willing and confident to contribute towards the below mentioned activities to promote Free/Libre Open Source Software in collaboration with the FOSSEE project funded by National Mission on Education through Information and Communication Technology (ICT), Ministry of Human Resource Development (MHRD), Government of India.

Activities to be undertaken by the FOSSEE Clubs (Any four)

1. Minimum of 5 lab migrations in any one (1), or a combination of FLOSS, namely, R, Scilab, eSim, DWSIM, CFD (OpenFOAM), Openmodelica, QGIS and Osdag.
2. A minimum of ten (10) Flowsheets in DWSIM / OpenModelica or 10 Circuit simulations in eSim or five (5) Case Studies in CFD (OpenFOAM)/ Scilab / R.
3. Encouraging neighboring institutes to participate in activities listed in points 1 and 2, above.
4. Inviting neighboring colleges for Spoken Tutorial based workshop (a minimum of four (4) workshops per year).
5. Interfacing hardware with software, eg: Scilab-Arduino (already done by FOSSEE).
6. Providing a cloud version for any of the FLOSS, hosting infrastructure will be provided by FOSSEE.
7. Creating Spoken Tutorials on new FLOSS or advanced series for existing FLOSS.
8. Development of FLOSS like creating toolboxes in Scilab, fixing bugs, etc.

Benefits of becoming a FOSSEE Club:

1. Get recognised as a FOSSEE club
2. Collaborate with various FOSSEE activities
3. Get your contributions displayed on FOSSEE website

Shree L. R. Tiwari College of engineering MIRA ROAD (EAST)

Shree L. R. Tiwari Educational Campus, Mira Road (East), Thane - 401 107, Maharashtra.
Phones : 022-2812 0144 / 45 42 E-mail : slrtce@rahuleducation.com Website : www.slrtce.in

SHREE L. R. TIWARI COLLEGE OF ENGINEERING Mira Road (E)

PRINCIPAL
Shree L. R. Tiwari College of Engineering
Kanakiya [illegible] Mira Road (E).

Scanned with CamScanner

Shree Rahul Education Society's (Regd.)

SHREE L. R. TIWARI COLLEGE OF ENGINEERING

(Approved by AICTE & DTE, Govt. of Maharashtra State &
Affiliated to University of Mumbai) NAAC Accredited
ISO 9001 : 2015 Certified • DTE Code No. 3423

Ref. No. : SLRTCE/3611

Date : 12/8/2020

4. Proficient student contributors get direct entry to a relevant job fair hosted by FOSSEE annually

5. Preference to the proficient student contributors in FOSSEE Summer Fellowship
6. Receive an annual certificate of recognition by FOSSEE after significant contributions
7. Get points (Approx. 20 points) in NAAC accreditation by participating in FOSSEE activities to know details about this Click here.

Name of Institute: Shree L.R. Tiwari College of Engineering Signature: Signature by (Designation): Dean R&D Name of the signatory: Dr. Anju Asya Date: 12/8/2020	Signature: Principal Investigator of FOSSEE, IIT Bombay Date:

Shree L. R. Tiwari College of Engineering MIRA ROAD (EAST)

Shree L. R. Tiwari Educational Campus, Mira Road (East), Thane - 401 107, Maharashtra.
Phones : 022-2812 0144 / 45 / 42 E-mail : slrtce@rahuleducation.com Website : www.slrtce.in

SHREE L. R. TIWARI COLLEGE OF ENGINEERING MIRA ROAD (E)

PRINCIPAL
Shree L. R. Tiwari College of Engineering
Kanakiya Park, Mira Road (E).

Scanned with CamScanner

Shree Rahul Education Society's (Regd.)
SHREE L. R. TIWARI COLLEGE OF ENGINEERING
Kanakia Park, Near Commissioner's Bungalow, Mira Road (East), Thane 401107, Maharashtra
(Approved by AICTE, Govt. of Maharashtra & Affiliated to University of Mumbai)
NAAC Accredited | ISO 9001:2015 Certified
Tel. No.: 022-28120144 / 022-28120145 | Email: slrtce@rahuleducation.com | Website: www.slrtce.in

Department of Electronics and Telecommunication Engineering

eSim Workshop - Faculty (Extc) Date: 22/07/22

Staff List Attendance

Sr. No.	Name of faculty	Sign.
1	Dr. Umesh Bhadade	22/7/22
2	Mrs. Aboli Moharil	Moharil 22/07/22
3	Mrs. Zainab Mizwan	
4	Mrs. Shruti Patil	22/07/22
5	Mrs. Hemangi Satam	22/7/22
6	Mrs. Snehal Shah	
7	Mrs. Swapna Patil	
8	Mrs. Namrata Kulkarni	
9	Mrs. Aparna Majare	22/7/22
10	Mrs. Madhuri Kadam	22/07/22
11	Mr. Aditya Desai	22/7/22
12	Mrs. Dipti Kale	22/7/22
13	Mrs. Sweta Padman	—
14	Mrs. Menka Singh	—
15	Ms Priyanka malgi	—
16	Mrs. Sonali Padalkar	22/7/2022
17	Ms. Maheshwari Marne	22/07/22
18	Mr. Sandeep Dwivedi	

SHREE L. R. TIWARI COLLEGE OF ENGINEERING ★ Mira Road (E)

PRINCIPAL
Shree L. R. Tiwari College of Engineering
Kanakia Park, Mira Road (E).

Activities under FOSSEE

1.Workshop and Conference
2.Hackathons/Marathons/Mapathons
3.Case study
4.Lab Migration
5.TextBook companion

ROADMAP FOR FOSSEE Activities

Step 1-
Workshop on OpenFOAM
Date-11,12 and 13th Jan 2023
Mode-Online
Fees-450/-
Department-Mechanical
Student-SE,TE,BE
Faculty-Manish Rane
Detail-
https://www.it.iitb.ac.in/nmeict/workshopContent.html?workshopid=cv0b5K-ocMFx5waDbKRMaA&category=UubpVTjA3FS-DQx8uW4rlA

Step -2
Osdag
Department-Civil
Subject Incharge-Mrunalini Deshmukh ,Archana Mali
They will going to use Osdag open source software for structured Design

Step-3
Scilab Lab Migration Project - https://scilab.in/Lab_Migration_Project

Step-4
All India Animation Hackathon - https://hackathon.fossee.in/2D-animation/

Step-5
Scilab textbook Companion - https://scilab.in/Textbook_Companion_Project

Step-6

List of courses available under spoken tutorial for next Internship Program under different branches

SHREE L. R. TIWARI COLLEGE OF ENGINEERING ★ Mira Road (F)

PRINCIPAL
Shree L. R. Tiwari College of Engineering
Kanshi... Mira Road (E).

Eg-
Computer
1-R
2-RDBMS
3-PHP and MySQL
4-HTML
5-Java

EXTC-
1-Scilab
2-Python
3-Arduino

MECH-
Open FOAM

SHREE L. R. TIWARI COLLEGE OF ENGINEERING ★ Mira Road (E)

PRINCIPAL
Shree L. R. Tiwari College of Engineering
Mira Road (E).

10

Proposal for Partnership with the Mumbai University

The FOSSEE Project offers training in FLOSS (Free/Libre Open Source Software) to students and teachers from all streams of education. This project is a part of the NMEICT (National Mission on Education through Information & Communication Technology). It is being developed at IIT Bombay and is funded by the MoE, Govt. of India. We envision partnering with Mumbai University and offering the students, teachers, and colleges with numerous benefits.

Offerings for students:

1. Internship opportunities in open source software: Internship is compulsory as per the AICTE norms. It holds credit points for the college as per the NAAC and NIRF ranking (explained in point no.4). It is also an opportunity for the students to enhance their skills by working with the software under the guidance of experts to get recognition and increase their chances of getting hired.

   We give below sample of project openings for internship for students with different backgrounds.

   a. Category 1 - Internship opportunities for IT and CS department students

Sr.no	Internship task
1	Scilab on Cloud performance enhancement
2	OpenFOAM GUI development
3	DWSIM development
4	Osdag development
5	Adding features to eSim
6	eSim on Cloud development
7	Arduino on Cloud development
8	Xcos on Cloud development
9	Osdag on Cloud development
10	Tutorial creation infrastructure

SHREE L. R. TIWARI COLLEGE OF ENGINEERING ★ Mira Road (E)

PRINCIPAL
Shree L. R. Tiwari College of Engineering
Kanakiya Park, Mira Road (E).

b. Category 2 - Internship opportunities for other departments

Sr. No	Internship tasks	Department name
1	Adding components to the device library of eSim.	Electronics and allied fields
2	Designing Microcontrollers using Verilog in eSim	Electronics and allied fields
3	Adding sub circuits	Electronics and allied fields
4	Implementing the IFC (Industry Foundation Class) file format in Osdag using scripting language/libraries in Osdag	Civil / Mechanical Engineering
5	Creating case studies using OpenFOAM	Mechanical Engineering
6	Creating instructional material on FreeCAD, the FLOSS alternative to AutoCAD	Mechanical Engineering
7	Creating flowsheets on DWSIM	Chemical Engineering

c. Category 3 - Internship opportunities for all.

Sr.No	Internship Task
1.	Creation of infographics using FLOSS tools
2.	Creation of Spoken Tutorials* on various FLOSS

** Please visit https://spoken-tutorial.org for more details.*

2. Department-wise Lab migration: Migrating to open source lab is extremely important in academic institutions. The use of FLOSS in the lab will improve the levels of work of both students and faculty. It also has the potential to save a lot of money for the institutions. The table given below explains that open source software can be used alternatively for different proprietary software.

SHREE L. R. TIWARI COLLEGE OF ENGINEERING ★ Mira Road (E)

PRINCIPAL
Shree L. R. Tiwari College of Engineering
Kanakiya Park, Mira Road (E).

Department name	Proprietary software likely to be used	Open source equivalent to be used
Mechanical Engineering	Fluent	OpenFOAM
Electronics and allied fields	Pspice / Eagle / MultiSim / LTSpice /Orcad, etc	eSim
For hardware		OpenPLC Arduino
Chemical Engineering	ASPEN Plus	DWSIM
Civil Engineering (for steel structures)		Osdag
For all departments	Matlab	Scilab
For all departments	SPSS	R
For all departments		OpenModelica
For Graphics and animations	Maya and 3D Max	Blender
For Graphics and animations	Adobe photoshop	GIMP
For Graphics and animations	CorelDRAW	Inkscape

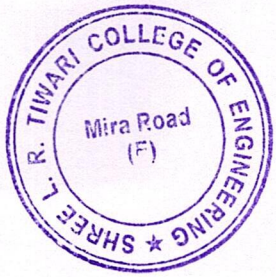
3. Python Learning through workshops
   For all AI and ML learning, Python knowledge is a must. FOSSEE conducts Python workshops with proper tests and awards graded certificates in Python

Offering for Colleges:

4. NAAC credit points

The table is given below explains how one can incorporate FOSSEE activities into the curriculum. This shall benefit the institution in improving the NAAC credits. The NAAC credit points for under various categories are given below.

Criteria 1: Curricular aspects	Weightage	Activities of FOSSEE which



PRINCIPAL
Shree L. R. Tiwari College of Engineering
Kanakiya Park, Mira Road (E).

		can be included
Curricula developed and implemented have relevance to the local, national, regional, and global developmental needs which are reflected in Programme Outcomes (POs), Programme Specific Outcomes(PSOs), and Course Outcomes(COs) of the Programmes offered by the University	20 Marks	Lab migration, internship program, last year projects, case study project.
Average percentage of courses having focus on employability/ entrepreneurship/ skill development offered by the University	10 Marks	FOSSEE Niche activities contribution, FOSSEE Summer Fellowship, FOSSEE Semester-long internships, Hackathons, Mapathons and Marathons
Percentage of students undertaking field projects/research projects/internships	5 Marks	The FOSSEE Fellowships and the Semester-long internships, Spoken Tutorial content development
Criteria 2: Teaching-learning evaluation	**Weightage**	**Activities of FOSSEE which can be included**
Average percentage of full-time teachers who received awards, recognition, fellowships at State, National, International level from Government/Govt. recognised bodies during the last five years	10 Marks	Letter of appreciation, awards, recognition for mentoring, and good contribution to various FOSSEE activities like internship, fellowship, etc.
Criteria 3: Research, Innovations and Extension	**Weightage**	**Activities of FOSSEE which can be included**
E-content is developed by teachers	10 Marks	Spoken tutorial development or any other contribution where we list faculty members names too on our website along with the students
Extension activities in the neighborhood community in terms of impact and sensitising students to social issues and holistic development during the last five years	6 Marks	The workshops / FDPs conducted by the institutions using Spoken tutorial videos can be considered
Number of collaborative activities with other institutions/ research establishment/industry for research and academic development of faculty and	10 Marks	Supporting in Hackathons

SHREE L. R. TIWARI COLLEGE OF ENGINEERING ★ Mira Road (E)

PRINCIPAL
Shree L. R. Tiwari College of Engineering
Kanakiya Park, Mira Road (E).

students per year		
Describe two best practices successfully implemented by the Institution as per NAAC format provided in the Manual	30 Marks	Activities of the FOSSEE clubs in addition to the testimonials, videos given by the students to make them realize the use of the best practices with FOSSEE

Please refer, http://www.naac.gov.in/images/docs/Manuals/Revised-University-Manual_1.pdf for more details.

SHREE L. R. TIWARI COLLEGE OF ENGINEERING
Mira Road (E)

PRINCIPAL
Shree L. R. Tiwari College of Engineering
Kanakiya Park, Mira Road (E).

ATTENTION

FOSSEE Summer Fellowship 2023

FOSSEE invites applications for the FOSSEE Summer Fellowship 2023. The students get an opportunity to work with FOSSEE for approximately 2 months. This is a remote (tentatively) fellowship with support and mentoring by the FOSSEE team. To get shortlisted for the fellowship, select a project and choose a screening task from the table given below under **screening task details**. You need to complete **at least one of the screening tasks**. The selection will be purely based on the evaluation criteria of each screening task.

How to Participate?

Students who are selected for this Fellowship can be from any college, pursuing any degree, and at any stage of their graduation/ post-graduation. The only criterion for selection is the successful completion of a useful project. Students desirous of getting selected for this Fellowship have to learn Free/Libre and Open Source Software (FLOSS) and complete some screening tasks. These tasks can involve programming/ scientific computing/ conducting awareness workshops/ collecting data that will be of use to the community. These screening tasks are not very complicated and can be done over a period of two weeks.

Terms of Engagement: Remote (tentative) Full time / Part-time

Important Dates

Last date of Registration	07 April 2023

SHREE L. R. TIWARI COLLEGE OF ENGINEERING Mira Road (E)

PRINCIPAL
Shree L. R. Tiwari College of Engineering
Kanakia Park, Mira Road (E).

Submission period	31 March - 16 April 2023
Result announcement	24 April 2023
Commencement of the FOSSEE Summer Fellowship 2023	07 May 2023 (tentative)
Conclusion of the FOSSEE Summer Fellowship 2023	Mid July 2023

Registration and Selection Procedure

- To register Please select one of the projects from the table given below and fill out this form to register.
- The submitted task will be reviewed by experts/ mentors from the FOSSEE team.
- After the review, the top submissions will be selected. The results of the selected fellows will be displayed on the website.
- The fellows will get the flexibility to work full-time (8 hrs a day) or part-time (4 hrs a day) during the fellowship.

Benefit:

- Opportunity to work with faculty from IIT Bombay
- Certificate of Fellowship
- Recognition on the FOSSEE website

Note: At the end of the fellowship you may receive an honorarium depending on the quality of work.

Rules and Regulations

- Selected FOSSEE Fellows' names will be displayed on the FOSSEE website, alternately they shall also receive an email regarding the selection on their registered email id. So it is important to fill in the correct details in the registration form.

SHREE L. R. TIWARI COLLEGE OF ENGINEERING ★ Mira Road (E)

PRINCIPAL
Shree L. R. Tiwari College of Engineering
Kanakiya Park, Mira Road (E).

- Once the Fellowship starts, every FOSSEE Fellow will be assessed every week based on the quality and quantity of the work. At any point, if the work is found unsatisfactory, the fellowship offer will be withdrawn.

Select the name of the project you are interested in. Please refer to the page for the list of available projects*

1. **eSim on Cloud**
2. **Arduino on Cloud**
3. **eSim**
4. **OpenFOAM**
5. **OpenFOAM GUI**
6. **Osdag**
7. **SOUL**

SHREE L. R. TIWARI COLLEGE OF ENGINEERING ★ Mira Road (F)

PRINCIPAL
Shree L. R. Tiwari College of Engineering
Kanakiya Park, Mira Road (E).

Shree Rahul Education Society's (Regd.)
SHREE L. R. TIWARI COLLEGE OF ENGINEERING
Kanakia Park, Near Commissioner's Bungalow, Mira Road (East), Thane 401107, Maharashtra
(Approved by AICTE, Govt. of Maharashtra & Affiliated to University of Mumbai)
NAAC Accredited | ISO 9001:2015 Certified
Tel. No.: 022-28120144 / 022-28120145 | Email: slrtce@rahuleducation.com | Website: www.slrtce.in

Workshop Proposal

TO,
The Principal,
SLRTCE, Mira Road (East),
Mumbai - 401107.

Subject: Permission for conducting a workshop on "Industry Connect with STM-32" for students in association with IETE-SF and ECSSA

Respected Sir,

We, Mrs. Aboli Moharil, Head of Department of Electronics And Telecommunication, SLRTCE and Mrs. Manjiri Gogate, Head of Department of Electronics and Computer Science would like to take your permission on behalf of the EXTC and ECS department for conducting a **one day workshop** on "**Industry Connect with STM-32**". We are conducting this workshop so that students can implement their Mini Project 2A and design application using STM-32 Core

Below are the tentative details of the event: -

Title of Workshop: Industrial Connect with STM-32

Planned Date: 14th Oct 2022

Duration: 1 Day

Target audience: SE, TE and BE students

Venue: Lab 410 and Lab 411

Name of the Speaker with designation: Prof. Umesh Bhadade, Vice Principal, SLRTCE

SHREE L. R. TIWARI COLLEGE OF ENGINEERING
Mira Road (E)

PRINCIPAL
Shree L. R. Tiwari College of Engineering
Kanakia Park, Mira Road (E).

Shree Rahul Education Society's (Regd.)
SHREE L. R. TIWARI COLLEGE OF ENGINEERING
Kanakia Park, Near Commissioner's Bungalow, Mira Road (East), Thane 401107, Maharashtra
(Approved by AICTE, Govt. of Maharashtra & Affiliated to University of Mumbai)
NAAC Accredited | ISO 9001:2015 Certified
Tel. No.: 022-28120144 / 022-28120145 | Email: slrtce@rahuleducation.com | Website: www.slrtce.in

Objectives of Workshop:

1) **To develop background knowledge of Embedded Systems.**
2) **To understand designing of embedded systems.**
3) **To understand use of wireless sensors/communications with Embedded systems.**
4) **To understand communication techniques.**
5) **To write programs for embedded systems and real time operating systems**

Mapping with PO:

PO2	Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
PO3	Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
PO9	Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
PO12	Recognize the need for, and have the preparation and ability to engage an independent and life-long learning in the broadest context of technological change.

SHREE L. R. TIWARI COLLEGE OF ENGINEERING ★ Mira Road (E)

PRINCIPAL
Shree L. R. Tiwari College of Engineering
Kanakia Park, Mira Road (E).

Shree Rahul Education Society's (Regd.)
SHREE L. R. TIWARI COLLEGE OF ENGINEERING
Kanakia Park, Near Commissioner's Bungalow, Mira Road (East), Thane 401107, Maharashtra
(Approved by AICTE, Govt. of Maharashtra & Affiliated to University of Mumbai)
NAAC Accredited | ISO 9001:2015 Certified
Tel. No.: 022-28120144 / 022-28120145 | Email: slrtce@rahuleducation.com | Website: www.slrtce.in

Mapping with CO:

ECM501.2	Understand microcontrollers and programming in Embedded C.
ECM501.3	Implementation of Embedded systems with different sensors and peripherals.
ECM501.4	Implementation of Embedded systems with different communication protocols.
ECM501.5	Analyze concepts of Real time operating systems.
ELC601.1	Interface various sensors and actuators to embedded cores.
ELC601.2	Write code using RTOS for multi-tasking Embedded systems
ELC601.3	Design applications using different embedded cores

Expected Outcomes:

Students will be able to:

1) Understand designing of embedded systems.

2) Understand use of wireless sensors/communications with Embedded systems.

3) Understand communication techniques.

4) Write programs for embedded systems and real time operating systems.

Yours sincerely

30/09/2022

Mrs. Aboli Moharil
HOD (EXTC)

Mrs. Manjiri Gogate
HOD (ECS)

SHREE L. R. TIWARI COLLEGE OF ENGINEERING ★ Mira Road (E)

PRINCIPAL
Shree L. R. Tiwari College of Engineering
Kanakia Park, Mira Road (E).

Shree Rahul Education Society's (Regd.)
SHREE L. R. TIWARI
COLLEGE OF ENGINEERING
(Approved by AICTE & DTE, Maharashtra State & Affiliated to University of Mumbai)
NAAC Accredited, NBA Accredited Program, ISO 9001:2015 Certified | DTE Code No. : 3423
Minority Status (Hindi Linguistic)

Budget Approval Letter

Ref. No.: **Date: 30/09/22**

Approval for Budget for "Industry Connect with STM-32" Workshop

Below are the tentative details of the event: -

Organized by: IETE SF (EXTC Dept.) and ECSSA (ECS Dept.)
Venue: Lab 410
Date: 13th and 14th October 2022
Time: 9:30 am to 4:30 pm
Total no of Participants expected: 100
Participants: SE to BE all branches

Sr No.	Expenses	
1	Kits with STM32 Board (10)	30200/-
2	Miscellaneous	9145/-
	Total Expenses	**39345/-**

Entry Fees: ₹150 per Student
₹ 100 for IETE and IEEE members

SHREE L. R. TIWARI COLLEGE OF ENGINEERING ★ Mira Road (E)

PRINCIPAL
Shree L. R. Tiwari College of Engineering
Kanakia Park, Mira Road (E).

Shree Rahul Education Society's (Regd.)

SHREE L. R. TIWARI COLLEGE OF ENGINEERING

(Approved by AICTE & DTE, Maharashtra State & Affiliated to University of Mumbai)
NAAC Accredited, NBA Accredited Program, ISO 9001:2015 Certified | DTE Code No. : 3423
Minority Status (Hindi Linguistic)

Ref. No.: **Date: 30/09/22**

Department	Opening Balance	Expenditure	Closing Balance
EXTC(Training & Travel)	1,02,000/-	11,093/-	90,907/-
ECS (Training & Travel)	1,00,000/-	11,093/-	88,907/-

Note: Approx. ₹ 17160 amount has already been approved under Lab equipment's and Consumable budget of Electronics and Telecommunication and Electronics and Computer Science department.

Tentative Income from Workshop:
Expected Students: 100*150 = ₹15000

Proposed by

Mrs. Aboli Moharil
HOD(EXTC)

Mrs. Manjiri Gogate
HOD(ECS)

Verified by

Dr. Umesh Bhadade
Vice-Principal

Recommended By

Dr. Deven N. Shah
Principal
SLRTCE

Approved By

Mr. Utsav R. Tiwari
COO
Rahul Education Society

Approved By

Shri. Rahul L. Tiwari
Secretary
Rahul Education Society

L. R. TIWARI COLLEGE OF ENGINEERING ★ Mira Road (E)

PRINCIPAL
Shree L. R. Tiwari College of Engineering
Kanakiya Park, Mira Road (E).

Shree Rahul Education Society's (Regd.)
SHREE L. R. TIWARI
COLLEGE OF ENGINEERING
(Approved by AICTE & DTE, Maharashtra State & Affiliated to University of Mumbai)
NAAC Accredited, NBA Accredited Program, ISO 9001:2015 Certified | DTE Code No. : 3423
Minority Status (Hindi Linguistic)

Ref. No.: **Date: 30/09/22**

Receipt Book for Workshop fees Collection

With respect to above competition we need receipt book for collection from each participant as Entry fee. Please provide the same.

Mrs. Aboli Moharil
HOD(EXTC)

Mrs. Manjiri Gogate
HOD(ECS)

SHREE L. R. TIWARI COLLEGE OF ENGINEERING ★ Mira Road (E)

PRINCIPAL
Shree L. R. Tiwari College of Engineeri.
Kanakiya Park, Mira Road (E).

OpenFOAM Workshop Certificate

This is to certify that

Jayant Dhuri

from Shree L. R. Tiwari College of Engineering, Mira Road

participated in the

online 3 Day Workshop on Basics of CFD and OpenFOAM

during **11 and 13 January 2023**

They attended the workshop registering under the Student category.

This training was organised by the FOSSEE (Free and Open Source Software for Education) and the Spoken Tutorial Projects, MoE, Government of India.

PRINCIPAL
Shree L. R. Tiwari College of Engineering
Kanakia Park, Mira Road (E).

SHREE L. R. TIWARI COLLEGE OF ENGINEERING ★ Mira Road (E)

Prof. Kannan Moudgalya
Principal Investigator, FOSSEE Project,
IIT Bombay

Prof. Janani Srree Murallidharan
Co-Principal Investigator, CFD Team, FOSSEE
IIT Bombay

Computational Fluid Dynamics

fossee better education
Promoting Free/Libre and Open Source Software

Spoken Tutorial

For details and verification, scan the QR code