



Shree Rahul Education Society's (Regd.)

SHREE L. R. TIWARI COLLEGE OF ENGINEERING

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NAAC Accredited, NBA Accredited Program, ISO 9001:2015 Certified | DTE Code No. - 3423
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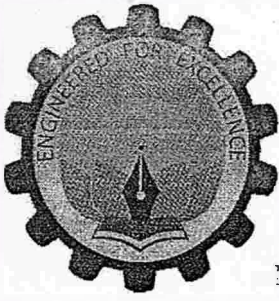
DOMAIN INTERFACE

Sr. No.	Document
1	Appointment Letter of Technical Domain Coordinator
2	List of Domains, Domain in-charges and members
3	Standard Operational Procedures of Interdisciplinary Team
4	Roles & Responsibility of Domain in-charges
5	Activities Lists, Details of Meeting
6	List of Problem Statements Under "Prayas – an initiative to solve real life problems"
7	Annual Progress Report



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Kanakya Park, Mira Road (E).



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Ref.No: SLRTCE | IC-388 | 22-23.

Date: 7/11/2022

To,
Mr. Sandeep Dwivedi,
Assistant Prof.
SLRTCE.

Subject: Appointed as a Technical Domain Coordinator (TDC)

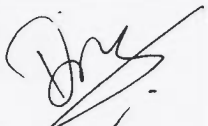
Dear Sir,

In continuation of your appointment order ref. no SLRTCE/4973/22-23 dated 01st Oct.2022, we are pleased to inform you that you have been given additional charge as Technical Domain Coordinator with retrospectively effecting from 1st Oct 2022. You are required to continue as Technical Domain Coordinator for maximum 1 years or until further orders.

You may please note that during this tenure, your performance will be evaluated from time to time through reports by superiors and also from feedback receivable from the students. You are hereby required to also note the role and responsibility of TDC as mentioned below for information and necessary action at your end.

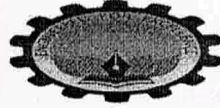
1. To bring out the holistic approach to research, formation of interdisciplinary team from two or more discipline's faculties and student club.
2. Selection of domain in charge from the domain specific team.
3. Supervising, evaluating and supporting domain activities to enhance the interdisciplinary approach at SLRTCE.
4. Encouraging the innovative and creative ideas of domain, recommending project proposals to funding agencies.

Kindly acknowledge receipt as acceptance of condition, roles and responsibilities laid down.


Dr. Deven Shah,
Principal.


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Minority Status (Hindi Linguistic)

List of Domains, Domain In-charge and the members

Sr. No.	Domain Name	Domain Incharge	Domain Members	Department taking Ownership of domain	Student club associated with
1	Artificial Intelligence and Data Science	Ms. Sheetal Mahadik	Ms. Nilam Phadvis, Ms. Khushbu Tikhe Ms. Sonali Padalkar and Ms. Rupali Paste	Electronics & Computer Science	AI club
2	Semiconductor Devices & VLSI Design	Ms. Aarti Naik	Ms. Aboli Mohril, Ms. Samita Bhandari and Ms. Dipti Kale	Electronics & Computer Science	IETE
3	Internet of Things (IoT) & Embedded System	Mr. Aditya Desai	Ms. Manjiri Gogate, Mr. Vinayak Shinde, Ms. Hemangi Satam and Tanvi Thakur	Electronics & Telecommunication	IOT & Embedded System
4	Signal Processing & Communication Engineering	Ms. Aparna Majare	Mr. Sandeep Dwivedi, Ms. Shruti Patil, Ms. Swapna Patil, Ms. Snehal Shah, Ms. Namrata Kulkarni and Menka Singh.	Electronics & Telecommunication	IETE
5	IT infrastructure and Security	Mr. Rajesh Gaikwad	Dr. Vikas Kaul, Ms. Aabha Patil, Dr. Vinayak Shinde, Ms. Maheshwari Marne and Mr. Vinay Singh	Computer Engineering	Cyber Security Club
6	Blockchain	Mr. Pravin Jangid	Ms. Harsha Dave, Ms. Deepali Bhole and Mr. Manthan Joshi	Computer Engineering	
7	Industry 4.0	Mr. Atul Mishra	Mr. Santosh Dubey, Mr. P Damodar and Mr. Bhavik Modi	Mechanical Engineering	Mechatronics Club
8	Hybrid Energy Resource	Mr. Ganesh Wafelkar	Mr. Manish Rane, Washim Shaikh, Radhika Thakare and Jitendra Kachare	Mechanical Engineering	
9	Structural Engineering and extreme structure	Ms. Mrunalini Deshmukh	Abhijit Samantha, and Archana Mali Mr. Aditya Prabhukhod and Mr. Durgesh Pal	Civil Department	
10	Sustainable Engineering & Technology	Dr. Ajit Patil	Ms. Prajka Mukadam, Mr. Pushkar Bharambe and Mr. Bashweswar Bansode	Civil Department	Sasvat Club
11	Software Development	Ms. Madhuri Gedam/ Ms. Swati bhatt	Ms. Sweta Parkhedkar and Mr. Saurabh Suman	IT Department	
12	WebX.O	Ms. Surekha Mali	Ms. Harsha Dave, and Mr. Pravin Jangir	IT Department	Google Development Club
13	Engineering Mathematics	Ms. Usha Bag	Mr. Yogendra Vishwakarma, Ms. Saumya Philip, Ms. R. Kalairasi	HAS	
14	Communication skills	Dr. Monica MDR Wagh	Ms. Oindrila Mukherjee, Ms. Tarannum khan and Ms. Saumya Philip	HAS	

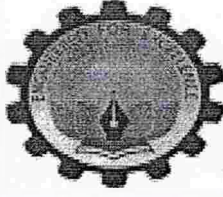

Mr. Sandeep Dwivedi
Technical Domain Coordinator

Dr. Umesh Bhadade
Vice-Principal

Dr. Deven Shah
Principal

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SOP of Interdisciplinary teams

In IQAC annual audit report we have observed that all the departments have formed 5-6 technical domains in their department. As most of domains are working independently, we found communication gap between them because of that most of activities are repeating and few of the domains are not able to conduct any activity. To promote interdisciplinary approach at institute level as per the thrust areas we have decided to form the Interdisciplinary teams which will avoid the redundancy of work and strengthen the interdisciplinary approach. From All six departments of college we have formed 13 interdisciplinary domains at institute level. Each department is having ownership of two domains and one domain is from humanities and applied science.

Objectives:-

- 1) To bring out the holistic & multidisciplinary approach towards the research
- 2) To provide an environment in which students will be train from very basic stage to advancement of the respective domain in which they are interested.
- 3) To develop some innovative and creative market ready projects for the benefit of society



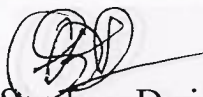
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Kanakiya Park, Mira Road (E).

Formation and Operating procedure of a particular domain

- A specific domain team will consist of one domain incharge from the department having ownership of the domain and a group of 5-6 faculties as domain experts from other departments.
- Domain team needs to conduct one orientation program in an academic year to create awareness and to get list of interested students of that domain.
- Domain team needs to conduct one in-house internship (Task/project base training) to train the interested student in particular domain
- After completion of training students need to submit the project along with report.
- Evaluation of domain work will be done through the project competition at institute level. Suggestions given by the expert team and Principal, Needs to implement in a next academic year for the continuous growth.

Domain Interface:-

Everyone from college has a freedom to arrange any technical activity. Into the proposal of such activity coordinator of event needs to take the remark from domain in-charge under title of domain interface. As a part of domain interface, domain in-charge needs to study activity proposal in details, check how the domain team can contribute to strengthen the activity and decide the desired outcome of the activity. Domain In-charge should mobilize staff and students for the successful completion of the event.



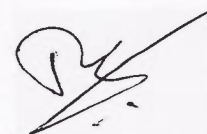
Mr. Sandeep Dwi vedi
Technical Domain Coordinator



Dr. Umesh Bhadade
Vice-Principal

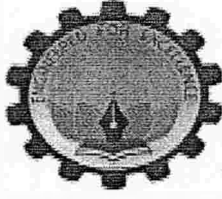


Dr. Deven Shah
Principal



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Roles and responsibilities of Domain In-charge

- Need to communicate with Training & Placement Officer and find out the industry requirements for the particular domain.
- Prepare a SOP for his/her domain.
- Define roles and responsibilities of the domain members.
- For planning of activities and certain coordination do a regular meeting with Technical Domain Coordinator (TDC) and collectively need to report to higher authority with proper plan of action for strengthening of domain.
- Plan and conduct the orientation program for domain to create awareness of it and to get the interested student enroll.
- Plan and conduct one in-house internship (Task/project base training) to train the interested student in particular domain.
- Keep the records of all the activities conducted by domain.
- Prepare a progressive report of the domain at the end of Academic Year.
- Identify the research proposals which can be sent to different funding agencies.

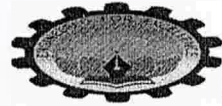
Mr. Sandeep Dwivedi
Technical Domain Coordinator

Dr. Umesh Bhadade
Vice-Principal

Dr. Deven Shah
Principal



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NAAC Accredited (B) & Address: Plot No. 59, 94/01/20/17/1, Kanakia Park, Mira Road, District - 401 203
Maharashtra, State of India (Pin 401 203)

List of Domains, Domain In-charges and the members

Sr. No.	Domain Name	Domain Incharge	Domain Members	Department taking Ownership of domain	Student club associated with
1	Artificial Intelligence and Data Science	Ms. Sheetal Mahadik	Mr. Nilam Phadnis, Ms. Khushbu Tikhe Ms. Sonali Padalkar and Ms. Rupali Paste	Electronics & Computer Science	AI club
2	Semiconductor Devices & VLSI Design	Ms. Aarti Naik	Ms. Aboli Mohril, Ms. Samita Bhandari and Ms. Dipti Kale	Electronics & Computer Science	IETE
3	Internet of Things (IoT) & Embedded System	Mr. Aditya Desai	Ms. Manjiri Gogate, Mr. Vinayak Shinde, Ms. Hemangi Satam and Tanvi Thakur	Electronics & Telecommunication	IOT & Embedded System
4	Signal Processing & Communication Engineering	Ms. Aparna Majare	Mr. Sandeep Dwivedi, Ms. Shruti Patil, Mr. Abhijit Somnath, Ms. Swapna Patil, Ms. Snehal Shah, Ms. Namrata Kulkarni and Menka Singh	Electronics & Telecommunication	IETE
5	IT infrastructure and Security	Mr. Rajesh Gaikwad	Dr. Vikas Kaul, Ms. Aabha Patil, Dr. Vinayak Shinde, Ms. Maheshwari Marne and Mr. Vinay Singh	Computer Engineering	Cyber Security Club
6	Blockchain	Mr. Pravin Jangir	Ms. Harsha Dave, Ms. Deepali Bhole and Ms. Reena Kothari	Computer Engineering	
7	Industry 4.0	Mr. Atul Mishra	Mr. Santosh Dubey, Mr. Amol Jadhav, Mr. P Damodar and Mr. Bhavik Modi	Mechanical Engineering	Mechatronics Club
8	Hybrid Energy Resource	Mr. Amarnath Landge	Mr. Manish Rane, Washim Shaikh, Radhika Thakare and Jitendra Kachare	Mechanical Engineering	
9	Structural Engineering and extream structure	Ms. Mrunalini Deshmukh	Abhijit Samantha, and Archana Mali Mr. Aditya Prabhukhod and Mr. Durgesh Pal	Civil Department	
10	Sustainable Engineering & Technology	Dr. Ajit Patil	Ms. Prajka Mukadam, Mr. Pushkar Bharambe and Mr. Bashweswar Bansode	Civil Department	Sasvat Club
11	Software Development	Ms. Madhuri Gedam	Ms. Sweta Parkhedkar, Ms. Savyesachi and Mr. Saurabh Suman	IT Department	
12	Web X.O.	Ms. Surekha Mali,	Ms. Harsha Dave, and Mr. Pravin Jangir	IT Department	Google Development Club
13	Engineering Mathematics	Ms. Usha Bag	Mr. Yogendra Vishwakarma, Ms. Saumya Philip, Ms. R. Kalairasi	HAS	
14	Communication skills	Dr. Monica MDR Wagh	Ms. Dhanshree Kamble and Ms. Saumya Philip	HAS	

Mr. Sandeep Dwivedi
Technical Domain Coordinator

Dr. Umesh Bhadade
Vice-Principal

Dr. Deven Shah
Principal

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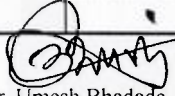



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(Approved by NAAC, Accredited Program, ISO 9001:2015 & ISO 14001:2015)
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2	Semiconductor Devices & VLSI Design	Ms. Aarti Naik	Ms. Aboli Mohril, Ms. Madhuri Bhujbal Ms. Samita Bhandari and Ms. Dipti Kale	Electronics & Computer Science	IETE
3	Internet of Things (IoT) & Embedded System	Mr. Aditya Desai	Ms. Manjiri Gogate, Mr. Vinayak Shinde, Ms. Hemangi Satam and Tanvi Thakur	Electronics & Telecommunication	IOT & Embedded System
4	Signal Processing & Communication Engineering	Ms. Aparna Majare	Mr. Sandeep Dwivedi, Ms. Shruti Patil, Mr. Abhijit Somnath, Ms. Swapna Patil, Ms. Snehal Shah and Menka Singh	Electronics & Telecommunication	IETE
5	IT infrastructure and Security	Mr. Rajesh Gaikwad	Dr. Vikas Kaul, Ms. Aabha Patil, Ms. Namrata Kulkarni, Dr. Vinayak Shinde, Ms. Maheshwari Marne and Mr. Vinay Singh	Computer Engineering	Cyber Security Club
6	Multimedia Design & Extended Reality	Mr. Pravin Jangir	Ms. Komal Champanerkar, Ms. Harsha Dave, Ms. Deepali Bhole and Ms. Reena Kothari	Computer Engineering	
7	Industry 4.0	Mr. Atul Mishra	Amarnath Landge, Santosh Dubey, Amol Jadhav, Priyanka Malagi Siddhesh Mane, P Damodar and Bhavik Modi	Mechanical Engineering	Mechatronics Club
8	Hybrid Energy Resource	Mr. Vivek Akolkar	Mr. Manish Rane, Washim Shaikh, Radhika Thakare and Jitendra Kachare	Mechanical Engineering	
9	Structural Engineering and extream structure	Ms. Mrunalini Deshmukh	Abhijit Samantha, and Archana Mali Mr. Aditya Prabhukhod and Mr. Durgesh Pal	Civil Department	
10	Sustainable Engineering & Technology	Dr. Ajit Patil	Mr. Vikas Somankar, Ms. Prajka Mukadam, Mr. Pushkar Bharambe and Mr. Bashweswar Bansode	Civil Department	Sasvat Club
11	Software Development	Ms. Madhuri Gedam	Ms. Sveta Parkhedkar, Ms. Sampada Watane, Ms. Savyesachi and Mr. Saurabh Sunan	IT Department	
12	WebXO	Ms. Deepali Patil	Ms. Surekha Mali, Ms. Aarti Puthran, Deepali Bhole, and Mr. Pravin Jangir	IT Department	Google Development Club
13	Engineering Mathematics	Ms. Usha Bag	Mr. Yogendra Vishwakarma, Ms. Saumya Philip R. Kalairasi	HAS	
14	Communication skills	Dr. Monica MDR Wagh	Ms. Dhanshree Kamble	HAS	


Mr. Sandeep Dwivedi
Technical Domain Coordinator


Dr. Umesh Bhadade
Vice-Principal


Dr. Deven Shah
Principal



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8/02/2023

Meeting of domain in-charges

1) Mrs. Aparna Majare

signal processing &
communication Engg.

~~Amayal~~
8/2/23

2) ^{for} Mrs. Abhijit Samanta.

Civil & Mechanical.
Structural Engg.

for S. S. S.
8/2/23

3) Mrs. Aarti Naik

Semiconductor Devices
& VLSI

AB
08/02/23

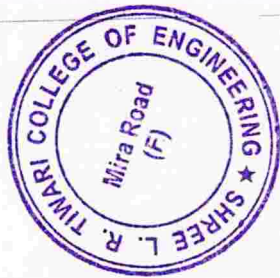
4) Mr. Aditya Desai

IOT.

Aditya
08/02/23

5) Mr. Atulkumar Mishra

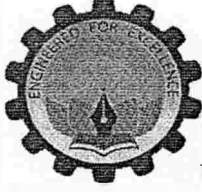
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M. S. A. Dawivedi.



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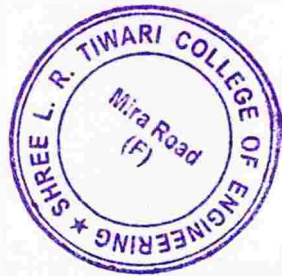
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Meeting with Principal on Prayas

Attendance

Date 10/05/2023

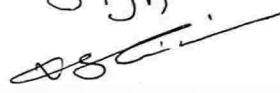


Sr. No.	Domain Name	Domain Incharge	Sign of Domain Incharge
1	Artificial Intelligence and Data Science	Ms. Sheetal Mahadik	
2	Semiconductor Devices & VLSI Design	Ms. Aarti Naik	
3	Internet of Things (IoT) & Embedded System	Mr. Aditya Desai	 10/5/23
4	Signal Processing & Communication Engineering	Ms. Aparna Majare	 10/5/23
5	IT infrastructure and Security	Mr. Rajesh Gaikwad	
6	Blockchain	Mr. Pravin Jangir	
7	Industry 4.0	Mr. Atul Mishra	 10/5/23
8	Hybrid Energy Resourse	Mr. Ganesh Wafelkar	
9	Structural Engineering and extream structure	Ms. Mrunalini Deshmukh	 10/5/23
10	Sustainble Engineering & Technology	Dr. Ajit Patil	 10/5/23
11	Software Development	Ms. Madhuri Gedam	 9/17/2023
12	WebX.O	Ms. Surekha Mali	
13	Engineering Mathematics	Ms. Usha Bag	 10/05/23
14	Communication skills	Dr. Monica MDR Wagh	

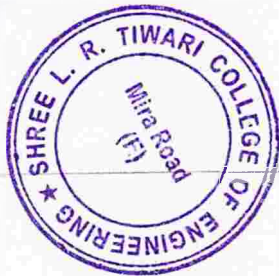


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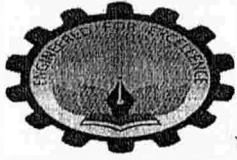
Meeting on Peayas with principal Sir

Domain name	Domain incharge	10/05/2023 Sign
1) Cyber security	Mr. Rajesh Gaikwad	40 
2) Machine AI/DS	Dr. Shweta Mahadik	
3) Signal Processing & Comm Engg.	Mrs. Aparna Majare	
4) Usha Bag	↔ Engineering Mathematics	10/05/23



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List of the activities conducted by domains

Sr. No.	Domain Name	Domain Incharge	Names of the activities conducted	Department having ownership of domain	Sign of Domain Incharge
1	Artificial Intelligence and Data Science	Ms. Sheetal Mahadik	OpenAI ChatGpt challenge	Electronics & Computer Science	
2	Semiconductor Devices & VLSI Design	Ms. Aarti Naik	In-house Internship on Digital VLSI Design	Electronics & Computer Science	
3	Internet of Things (IoT) & Embedded System	Mr. Aditya Desai	In-house internship on IOT	Electronics & Telecommunication	
4	Signal Processing & Communication Engineering	Ms. Aparna Majare	In-house Internship on 5G, Animation using Python, I.V. to VJTI for ISRO exhibition	Electronics & Telecommunication	
5	IT infrastructure and Security	Mr. Rajesh Gaikwad	In-house Internship on Cyber Security	Computer Engineering	
6	Blockchain	Mr. Pravin Jangir	Training for Lab System	Computer Engineering	
7	Industry 4.0	Mr. Atul Mishra	FDP on Industry 4.0	Mechanical Engineering	
8	Hybrid Energy Resource	Mr. Ganesh Wafelkar	Industrial training on E-Vehicle	Mechanical Engineering	
9	Structural Engineering and extream structure	Ms. Mrunalini Deshmukh	Audit course -structural & architecture aspect in civil engineering	Civil Department	
10	Sustainable Engineering & Technology	Dr. Ajit Patil	Webinar on My Environmental experience in nutsshell	Civil Department	
11	Software Development	Ms. Madhuri Gedam	In-house internship on AWS	IT Department	
12	WebX.O	Ms. Surekha Mali	In-house internship on web development	IT Department	
13	Engineering Mathematics	Ms. Usha Bag	Lectures conducted in AI/ML course	HAS	
14	Communication skills	Dr. Monica MDR Wagh	1. Dignonstic Test For FE students 2. Assessment session for Soft skills 3. Pre-Placement Activity	HAS	

Mr. Sandeep Dwivedi
Technical Domain Coordinator



Dr. Umesh Bhadade
Vice-Principal

Dr. Deven Shah
Principal

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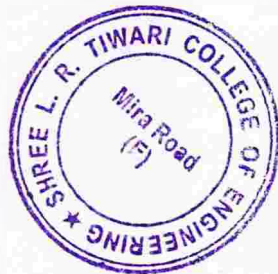
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Meeting with Principal

Attendance

Date 14/03/2023

Sr. No.	Domain Name	Domain Incharge	Sign of Domain Incharge
1	Artificial Intelligence and Data Science	Ms. Sheetal Mahadik	
2	Semiconductor Devices & VLSI Design	Ms. Aarti Naik	for
3	Internet of Things (IoT) & Embedded System	Mr. Aditya Desai	 14/3/23
4	Signal Processing & Communication Engineering	Ms. Aparna Majare	 14/3/23
5	IT infrastructure and Security	Mr. Rajesh Gaikwad	
6	Blockchain	Mr. Pravin Jangid	
7	Industry 4.0	Mr. Atul Mishra	
8	Hybrid Energy Resource	Mr. Ganesh Wafelkar	
9	Structural Engineering and extream structure	Ms. Mrunalini Deshmukh	 14/3/23
10	Sustainable Engineering & Technology	Dr. Ajit Patil	for
11	Software Development	Ms. Madhuri Gedam	for
12	WebX.O	Ms. Surekha Mali	
13	Engineering Mathematics	Ms. Usha Bag	
14	Communication skills	Dr. Monica MDR Wagh	






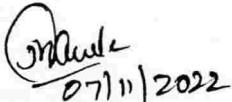




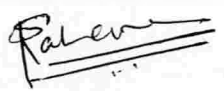

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Date 07, 11/2022

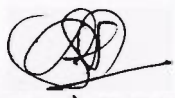
Domain Incharge Meeting with the principal

Domain Name

Domain Name	Incharge	Sign
1) Semiconductor Devices & VLSI Design	Aarti Naik	
2) Usha Bag Engineering Mathematics	Usha Bag	
3) Signal Processing & Communication Engg.	Aparna Majdar	 7/11/22
4) Communication Skills	Dr. Monika Wagh	 07/11/2022
5) Sustainable Engineering & Technology	Pushkar Bharambe	
6) Industry 4.0	Bhavik Modi	
7) Webx	Kemal Champarkerkar	
8) SIW development	Mandhvi Gadam	
9) AIDS	Mrs. Smiti Padalkar	
10) IOT	Mrs. Hemangi Satam (on behalf of Mr. Aditya Desai)	 7/11/22





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M.B. Sandeep
Daviuradi.
(TDC)

- 1) Dr. Manika MDR Wagh - PCE Domain Manika
- 2) Mrs. Aparna Majare - signal processing & commn engg. Majare 21/12/22
- 3) Mrs. Kunal Champarkerkar - Web X.O Kunal 21/12/22
- 4) Mr. Atulkumar Mishra. Industry 4.0 AM 21/12/22
- 5) Mr. Aditya Prabhukha - structural AP 21/12/22
- 6) Ms. Malini Deshmukh. structural D.I MD 21/12/22
- 7) Aditya Desai - IOT & Embedded. Aditya 21/12/22

Points Discussed

- 1) All are asked to prepare SOP.
- 2) plan a orientation program of domain.


 Mr. Sandeep
 Desai
 (TDC)

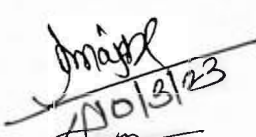
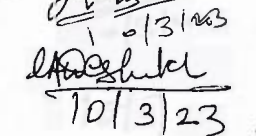
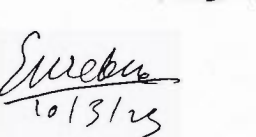




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Date 10/03/2023 .

Agenda of meeting.

1) plan of Action.

Name	Domain Name	Sign.
Mrs. Aparna Majre	Signal Processing & Comm'n	 10/3/23
Mr. Amarnath Landge	Hybrid Energy Resource	 10/3/23
Mrs. Meenalini Deshmukh	Structural Engg.	 10/3/23
Mrs. Suresha Mali	Webx.o	 10/3/23



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Minority Status (Hindi Language)

“Prayas” An Initiative towards Experiential Learning

Experiential learning is a powerful pedagogical approach that engages learners through active participation in real life scenario. It is an immersive and interactive form of education that goes beyond traditional classroom learning. To encourage experiential learning we at SLRTCE are starting with a new initiative “Prayas”.

Objective of “Prayas”

Quick and Exponential enhancement of skills and knowledge.

Background:

Presently students are undergoing:

- 1) Normal learning through subjects and project-based learning. In both the cases students need to spend an entire semester to learn the subject and work on the project. Subjects never cover the latest trends required by the industry but are more based on the concept side. But it is very much required for making foundation strong.
- 2) MOOC courses are the way students do self-study, but statistics say that only 6% of students are able to complete the course.

So, we are emphasizing spending 10-15min on learning based on latest trends which will help students acquire exponentially increasing skills which can applied in solving industry related problems.

If quantify this, 10 min challenge per day for 365 days will cover 3650 new techniques in various domains and an enormous “Knowledge Powerhouse” to be created in college and among the group of students.




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Benefits:

The benefits of this activity includes

Enhanced retention: Experiential learning engages multiple senses and promotes active participation, which leads to better retention of information and skills.

Real-life Application: Experiential learning provides learners with the opportunity to apply their learning to real-life situations, which enhances their understanding and improves their ability to solve real-world problems.

Collaboration: Experiential learning often involves collaboration and teamwork, which helps learners develop interpersonal and communication skills that are essential in today's workspace.

Engagement: Experiential learning is highly engaging and motivating which leads to increased participation and enthusiasm among learners.

How to implement

- 1) "Prayas" will start in June 2023.
- 2) All problem statements can be considered as a part of internship.
- 3) To make 'Prayas' successful it is important to identify relevant challenges which are technically very appealing along with the purpose of technical knowledge and challenge should include guidelines to complete the it and it should be very short.
- 4) And hence anyone which includes faculty and student can create a challenge in the format given above and they need to submit to respective domain in charge. So, the challenge needs to be published by the domain in charge and decimated to all students by respective Head of the Department.
- 5) Students need to work out on the challenge.
- 6) Students who can crack the challenge should inform their HOD about it. Through domain in charge the students will get the chance to showcase their skills to all other students as a part of peer to peer learning.
- 7) Students will be given additional credits in student dairy for their work. Those who are able to solve highest number of challenges will get a chance to be a part of many opportunities at college level like paid internship or implementations in development center etc.
- 8) Activity will be conducted on 3rd Friday of every month.

Expected Outcomes:

- College has already witnessed concept of "Prayas" in informal way in one of the prominent domains of Cyber security where group of students worked to solve challenges after discussion with faculties. And then started working on the solution to that challenge. Due to this activity a new and excellent knowledge on domain came out at such an extent that college could write proposal for 9 problem statements out of 20 for Kavach Hackathon (36 Hours Hackathon on Cyber security and cybercrime) and 5 Research proposal for iDEX DISC-9 (iDEX is innovation for Defense Excellence in which Raksha




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Mantri of India has launched 9th edition of Defense India startup with 28 problem statements on the theme of Cyber security from Indian Army, Indian Navy and Indian Airforce).

- So, we are expecting same level of output if we can implement “Prayas” formally in the college.

Domain list

Sr. No.	Domain Name	Domain Incharge	Domain Members	Department taking Ownership of domain	Student club associated with
1	Artificial Intelligence and Data Science	Ms. Sheetal Mahadik	Ms. Nilani Phadnis, Ms. Khushbu Tikhe Ms. Sonali Padalkar and Ms. Rupali Paste	Electronics & Computer Science	AI club
2	Semiconductor Devices & VLSI Design	Ms. Aarti Naik	Ms. Aboli Mohril, Ms. Samita Bhandari and Ms. Dipti Kale	Electronics & Computer Science	IETE
3	Internet of Things (IoT) & Embedded System	Mr. Aditya Desai	Ms. Manjiri Gogate, Mr. Vinayak Shinde, Ms. Hemangi Satam and Tanvi Thakur	Electronics & Telecommunication	IOT & Embedded System
4	Signal Processing & Communication Engineering	Ms. Apama Majare	Mr. Sandeep Dwivedi, Ms. Shruti Patil, Mr. Abhijit Sonnathe, Ms. Swapna Patil, Ms. Snehal Shah, Ms. Namrata Kulkarni and Menka Singh.	Electronics & Telecommunication	IETE
5	IT infrastructure and Security	Mr. Rajesh Gaikwad	Dr. Vikas Kaul, Ms. Aabha Patil, Dr. Vinayak Shinde, Ms. Maheshwari Marne and Mr. Vinay Singh	Computer Engineering	Cyber Security Club
6	Blockchain	Mr. Pravin Jangir	Ms. Harsha Dave, Ms. Deepali Bhole and Ms. Reena Kothari	Computer Engineering	
7	Industry 4.0	Mr. Atul Mishra	Mr. Santosh Dubey, Mr. Amol Jadhav, Mr. P Damodar and Mr. Bhavik Modi	Mechanical Engineering	Mechatronics Club
8	Hybrid Energy Resource	Mr. Amarnath Landge	Mr. Manish Rane, Washim Shaikh, Radhika Thakare and Jitendra Kachare	Mechanical Engineering	
9	Structural Engineering and extreme structure	Ms. Mrunalini Deshmukh	Abhijit Samantha, and Archana Mali Mr. Aditya Prabhukhod and Mr. Durgesh Pal	Civil Department	
10	Sustainable Engineering & Technology	Dr. Ajit Patil	Ms. Prajka Mukadam, Mr. Poojkar Bharambe and Mr. Bashweshwar Bansode	Civil Department	Sasvat Club
11	Software Development	Ms. Madhuri Gedani	Ms. Sweta Parkhedkar, Ms. Savyesachi and Mr. Saurabh Suman	IT Department	
12	WebX.O	Ms. Surekha Mali.	Ms. Harsha Dave, and Mr. Pravin Jangir	IT Department	Google Development Club
13	Engineering Mathematics	Ms. Usha Bag	Mr. Yogendra Vishwakarma, Ms. Saumya Philip, Ms. R. Kalairasi	HAS	
14	Communication skills	Dr. Monica MDR Wagh	Ms. Dhanshree Kamble and Ms. Saumya Philip	HAS	

- Initial target of ‘Prayas’ is minimum 1 challenge/domain/week which will be initiated through domain in charges. To motivate students and get the expected output one student per domain will lead the ‘Prayas’ activity.
- All documentation related to challenge and peer to peer learning platform will be provided on Friday which will be coordinated by domain in charges.

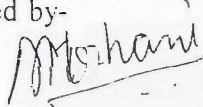



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Conclusion:

- 1) "Prayas" will inculcate the quality of leadership among students.
- 2) "Prayas" will boost inspiration, knowledge and leadership qualities in the student and faculty member as well.

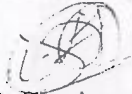
Prepared by-



- 1) Mrs. Aboli Moharil
(HOD, EXTC)

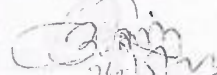


- 2) Mrs. Manjiri Gogate
(HOD, ECS)



- 3) Mr. Sandeep Dwivedi
(Domain In-Charge)

Verified by



- Dr. Umesh Bhadade
Vice Principal

Approved by



- Dr. Deven Shah
Principal



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NAAC Accredited, NTA & NSEP of Program, ISO 9001:2015 Certified | DUE Code No. 15423
Mediums: Sanskrit, Hindi, English


SLR/CE/IC - 508. | 22 - 23

Date - 26/05/2023

DOMAIN In-Charge NOTICE

Domain In-charges are requested to keep following points in mind while framing problem statements for student under the *prayas*.

- Problem statement should not have research paper as a reference
- The problem statement should cover the title of problem statement, why student should attain this problem and how they can approach.
- Problem statement should not be the part of academic curriculum, it should be beyond that and highly industry orientated.
- Problem statement should be short, should be able to complete within 30mins.
- Objective of problem statement is not to see the caliber of students but to motivate students to complete the problem statement and can be apply in any other real time issues.


Dr. Leena Shah,
Principal




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SLRTCE/IC-507/22-23.

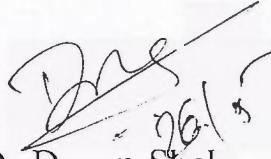
Date: - 26/05/2023.

NOTICE

Dear Students,

Prayas- "An initiative to solve the real time problem" is an attempt towards the overall growth of student. It aims to facilitate rapid and exponential knowledge enhancement, enabling students to address real-time industry challenges and emerge as trendsetters in the engineering field.

SLRTCE has launched a unique concept of **Prayas**. We assure you, that your positive participation in Prayas will not only shape your future but empower you to become the master architect of your career destiny.


Dr. Deven Shah.
Principal.

Encl: Prayas Document




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“Prayas”

An initiative to solve real time problems

Can you solve this simple real time problem based on ‘Hybrid Energy Resources?’

Problem Statement:- Solar based mobile charger

The widespread usage of mobile phones, coupled with the increasing demand for clean energy, highlights the need for an efficient and sustainable solution for charging mobile phones using solar energy.

Approach: -

Students need to understand components and circuit as mentioned below

- Basic Components: solar panels, energy storage devices, and charging circuits.
- Charging circuit diagram [2]

Reference:

1] https://youtu.be/i5y_JZRr_Fw

2] <https://quartzcomponents.com/blogs/electronics-projects/solar-powered-mobile-phone-charger-circuit>

For any kind of more clarification or to check the correctness of your solution please meet us in 205 staff room, New Building.

Mr. Manish Rane (9892686299),

Mr. Ganesh Wafelkar (8308916064)

Domain- Hybrid Energy Resources

Mr. Wafelkar G. V.

Domain Incharge

Mr. Dwivedi S. Anand

Technical Domain Incharge

Mr. Manish Rane

HD D Mechanical



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Minority Status (Hindi Linguistic)

Date 15/06/2023

"Prayas"

An Initiative to solve a problem during communication

A simple problem related to noun-verb agreement

Problem Statement:

The common error in English language usage is ignorance of subject-verb agreement.

Lack of proper knowledge & differences in the languages.

Approach: - I) Peer revising: discussing examples with peers

II) Inductive method: learners will discover the grammatical rules through learning experiences.


Reference:

- [Rules in Subject Verb Agreement | 10 Rules Explained with Examples \(pediaa.com\)](#)
- [Subject-Verb Agreement \(towson.edu\)](#)
- [Subject-Verb Agreement - Emareye](#)

For any kind of clarification or check the correctness of the solution, meet me in 108


Dr. Monika MDR Wagh
Domain in-charge

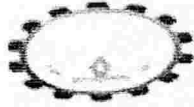

Mr. Sandeep Dwivedi
Technical Domain in-charge

 15/06/23
Ms. Usha Bag
F.E. in-charge



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Kanakiya Park, Mira Road (E).



"Prayas"

An initiative to solve real time problems

Keep the Beer Cold with IoT but not too cold ?

Problem Statement: -

Keeping something cold seems so simple. Commercial refrigeration units come in all shapes and sizes. However, they are surprisingly difficult to calibrate and monitor with great accuracy. At any given time, Blessed Brewing might have \$30,000 worth of fresh beer in our cold storage units. If we can keep our beer at a consistent temperature of 36°F, we know that our customers will be able to enjoy a beer with the most dynamic flavor profile. Cold beer stays fresh longer, but more importantly it retains its subtle nuances of flavor.

Approach:-

What if the default temperature range on a unit is incorrect for our application?

What if our service technician does a poor job calibrating the thermostat?

What if a compressor fails?

What if a circuit breaker blows on the panel?


What if there is a power outage at our facility while we are away?


What if one of these things happens over a vacation weekend, or if we do not open the door to a cooler for 4 days?

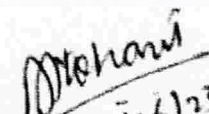
What if an employee doesn't notice that the cooler is at 59°F instead of 36°F?

Reference:


<https://link.medium.com/EYvPuNN6Uzb>


Domain Incharge
Aditya Desai


Technical Domain Incharge
A. Dhanraj


HOD 16/06/23
Aboli Mohari




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“Prayas”

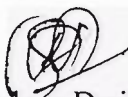
An initiative to solve real time problems

Can you solve this simple real time problem on data base management:-

Problem Statement:- To design a user interface to maintain the database of works allocated to employees and generate the report of the statistics which includes – the report of work completed on time, report of work not completed on time, intimation of the list of work to be done prior 1/2/3 days before the last date.

A database to be designed to maintain the records of the work allocation, a web – page providing the interface to enter the records and save them in the database, and input options for generating various reports.

For any kind of more clarification or to check the correctness of your solution please discuss with **Prof. Dr. Umesh Bhadade**.


Mr. Sandeep Dwivedi
Prayas Co-ordinator




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SHREE L. R. TIWARI
COLLEGE OF ENGINEERING

Date: 22/05/2023

“Prayas”

An initiative to solve real time problems

Simple real time problem based on Signal Processing?

Problem: Male Female Voice Recognition system.

Application of the system is to detect gender of the person.


Approach :


- 1) Use fundamental frequency of typical male & female.
- 2) Use Matlab Simulink to create filter
- 3) Set threshold frequency and compare calculated frequency to detect male or female voice.
- 4) Create GUI.

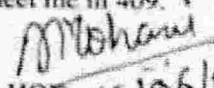
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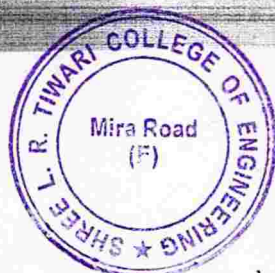
1) <https://link.medium.com/sBN0LyVWwzh>

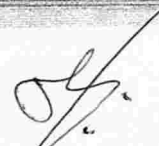
For any kind of clarification or to check the correctness of the solution please meet me in 409.


Domain Incharge
Ms. Aparna Majumdar


Technical Domain Incharge
Mr. S.A. Dawidoli


HOD 15/06/2023
(Mrs. Abali Mohari)




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Simple real time problem facing by all civil engineers concerning "Engineering Solution to Enhance Safety in Extreme Engineering".

Problem Statement:-

The improvement in safety of is very important societal, economic and environmental is to avoid passengers from having injuries and fatal accidents which might result in death. The broad education to understand the impact of engineering solutions in a global / societal context.

Approach:-

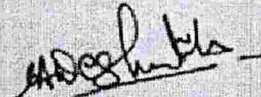
- 1) Evaluate and describe accurately the environmental impact of engineering products, including those they have designed in projects.
- 2) Evaluate and describe accurately environmental and economic tradeoffs in Civil / Mechanical engineering products.
- 3) Evaluate and describe accurately the health / safety and economic tradeoffs in Civil / Mechanical engineering products, including those they have designed in projects.
- 4) Take into consideration the environmental impact.
- 5) Take into consideration the health / safety impact
- 6) Speculate on large-scale societal changes that some engineering innovations may cause.


Reference:

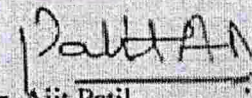
1. <https://cme.engr.uga.edu/ABET/Articles/Impact%20of%20Engineering%20Solutions%20on%20Society.pdf>
2. <http://www.slideshare.net/MTAherHamdani/ee104-sen-int004sept10-engineering-solution-part-1>
3. https://www.engr.colostate.edu/CBE101/topics/engineering_problemsolving.htm In#:~:text=Evaluate%20and%20rank%20the%20possible,Implement%20the%20plan

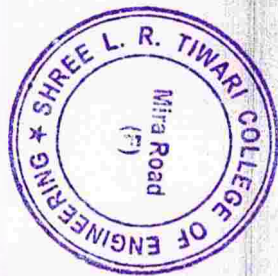
For any kind of more clarification or to check the correctness of your solution please meet us in 209 Civil Department staff room.

Dr. Mrunalini Deshmukh (8169735647)


Dr. Mrunalini Deshmukh
Domain Incharge


Mr. Sandeep Dwivedi
Technical Domain Incharge


Dr. Ajit Patil
HOD (CE)



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

Cogni-Pitch “Prayas” Problem Statements ‘An initiative to solve real time problems’

Artificial Intelligence and Data Science

Problem Statement: Predictive Analytics for Healthcare

- Explore the use of predictive analytics and machine learning in healthcare to improve patient outcomes, early disease detection, and resource allocation.

Problem Statement: AI for Natural Language Processing (NLP)

- Present the advancements in AI and NLP technologies, such as chatbots and language translation, and their applications in various industries including customer service and content generation.

Problem Statement: AI in Financial Services for Fraud Prevention

- Investigate how AI and machine learning are employed in the financial industry to detect and prevent fraudulent transactions and activities.

Problem Statement: AI in Natural Disaster Prediction and Management

- Investigate the role of AI and data science in predicting and mitigating the impact of natural disasters, such as hurricanes, earthquakes and wildfires.

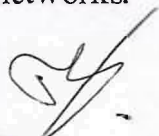
Problem Statement: Autonomous Vehicles and AI

- Present the current state of autonomous vehicle technology, the role of AI in self-driving cars, and the challenges and regulatory considerations in their widespread adoption.

Problem Statement: Recommender Systems and Personalization Algorithms

- Explore the algorithms and ethical implications behind recommendation systems used by platforms like Netflix, Amazon and social media networks.




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IoT and Embedded Systems

Problem Statement: Smart Home Automation for Energy Efficiency

- Explore the development and implementation of IoT-based solutions for smart homes to optimize energy consumption, enhance security, and improve overall comfort.

Problem Statement: IoT in Healthcare for Remote Monitoring

- Present how IoT devices and embedded systems are revolutionizing healthcare by enabling remote patient monitoring, telemedicine, and personalized treatment plans.

Problem Statement: IoT in Agriculture for Precision Farming

- Investigate how IoT sensors, automation, and data analytics are being used in agriculture to improve crop yield, reduce resource usage, and monitor livestock.

Problem Statement: Smart Cities and IoT Infrastructure

- Explore the development of IoT infrastructure in smart cities, including applications in traffic management, waste management, and environmental monitoring.

Problem Statement: IoT in Environmental Monitoring

- Investigate how IoT and embedded systems are used to monitor air quality, water quality, and other environmental factors, aiding in pollution control and conservation efforts.

Problem Statement: IoT and Smart Transportation

- Explore how IoT and embedded systems are transforming transportation systems, including smart traffic management, autonomous vehicles, and vehicle-to-vehicle communication.



A handwritten signature in blue ink, appearing to be "S. S. Tiwari".

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K. S.

IT Infrastructure and Security

Problem Statement: Securing the Cloud: Challenges and Solutions

- Explore the security challenges associated with cloud computing and present strategies and technologies for ensuring data privacy and protection in cloud environments.

Problem Statement: Network Security in the Age of Remote Work

- Explore the challenges and solutions for maintaining network security as remote work becomes more prevalent, with a focus on VPNs, encryption, and secure access.

Problem Statement: Multi-factor Authentication (MFA) and Access Control

- Present the importance of MFA in enhancing user authentication and access control, reducing the risk of unauthorized access to sensitive data.

Problem Statement: Insider Threats and Data Leakage Prevention

- Investigate the risks posed by insider threats and strategies to detect and mitigate these threats, including user behavior analytics and data loss prevention tools.

Problem Statement: Supply Chain Security

- Explore the security challenges associated with supply chain dependencies and discuss strategies for securing the technology supply chain against cyberattacks.

Problem Statement: Cybersecurity Compliance and Regulations

- Discuss the importance of compliance with cybersecurity regulations and standards, such as GDPR, HIPAA, and NIST, and their impact on organizations.




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Blockchain

Problem Statement: Blockchain for Supply Chain Transparency

- Discuss how blockchain technology can be utilized to enhance transparency, traceability, and trust in supply chain management, reducing fraud and ensuring product authenticity.

Problem Statement: Blockchain in Healthcare for Secure Health Records

- Investigate the use of blockchain to securely store and manage electronic health records, ensuring data integrity, privacy, and interoperability among healthcare providers.

Problem Statement: Identity Verification and Blockchain

- Explore how blockchain can revolutionize identity verification by providing individuals with self-sovereign digital identities, enhancing security and privacy.

Problem Statement: Blockchain for Intellectual Property and Digital Rights Management

- Discuss how blockchain can be used to protect intellectual property rights and manage digital assets, such as music, art, and patents.

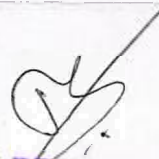
Problem Statement: Smart Contracts and Legal Implications

- Explore the legal and regulatory challenges surrounding smart contracts and blockchain-based agreements, and the role of governments in their validation and enforcement.

Problem Statement: Blockchain for Voting Systems

- Present the potential of blockchain in creating secure and transparent voting systems, reducing electoral fraud and enhancing trust in democratic processes.




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Industry 4.0

Problem Statement: Cybersecurity in Smart Manufacturing

- Investigate the cybersecurity risks and solutions associated with interconnected industrial systems and the Internet of Things (IoT) in the context of Industry 4.0.

Problem Statement: The Role of 5G in Industry 4.0

- Present how 5G technology is driving innovation in Industry 4.0, enabling real-time data transmission, low latency, and enhanced connectivity for industrial applications.

Problem Statement: Human-Machine Collaboration in Smart Factories

- Explore the challenges and opportunities of integrating human workers with robots and AI systems in Industry 4.0 environments for improved efficiency and safety.

Problem Statement: Predictive Maintenance Using IoT and Analytics

- Discuss the use of IoT sensors and data analytics to predict equipment failures and optimize maintenance schedules in industrial settings.

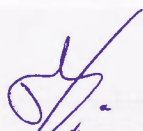
Problem Statement: Skills Gap in the Era of Industry 4.0

- Discuss the challenges of bridging the skills gap in the workforce to meet the demands of Industry 4.0, including retraining and upskilling initiatives.

Problem Statement: Data Privacy and Ethics in Smart Manufacturing

- Investigate the ethical considerations and data privacy implications of collecting and analyzing vast amounts of data in Industry 4.0 applications.




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Sustainable Engineering and Technology

Problem Statement: Good Practices of Eco-efficient Water Infrastructure

- Decentralized wastewater treatment consists of a variety of approaches for collection, treatment, and dispersal/reuse of wastewater for individual dwellings, industrial or institutional facilities. It conveys, treats and dispose or reuse wastewater from small and low-density communities, buildings and dwellings in remote areas, individual public or private properties.

Problem Statement: Indoor Vertical Farming from Treated Grey Waste Water

- Indoor Vertical Farming is a type of horticulture and it is the practice of growing produce in vertically stacked layers. It involves growing plants in nutrient solutions that are free from soil. It is to recycle the treated grey waste water and for the cultivation of crops.

Problem Statement: Vermifiltration systems for liquid waste management

- It is an innovative wastewater treatment process that implies the use of composting worms to treat water loaded with organic contaminants.

Problem Statement: Sustainable Transportation Solutions

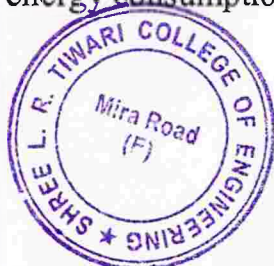
- Explore advancements in sustainable transportation technologies, including electric vehicles, public transit, and bike-sharing programs, to reduce carbon emissions and congestion.

Problem Statement: Sustainable Agriculture Technologies

- Investigate technologies and engineering practices that promote sustainable agriculture, such as precision farming, organic farming methods, and water-efficient irrigation systems.

Problem Statement: Solar Based Automatic Street Light

- The objective is to create solar-powered street lights that automatically turn on the lights at dusk and turn them off at dawn, eliminating the need for manual operation and reducing energy consumption.




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Software Development

Problem Statement: Agile vs. Waterfall: Choosing the Right Software Development Methodology

- Discuss the differences between Agile and Waterfall methodologies, their pros and cons, and when to use each in software development projects.

Problem Statement: Software Security and Vulnerability Management

- Present strategies for identifying and mitigating security vulnerabilities in software applications to protect against cyber threats and data breaches.

Problem Statement: Website using blue eye technology

- It can handle the website by eye contact only.

Problem Statement: Mobile App Development and Cross-Platform Solutions

- Explore the challenges of mobile app development and the advantages of cross-platform development frameworks for building apps for iOS and Android.

Problem Statement: Open Source Software Development and Community Collaboration

- Discuss the benefits and challenges of contributing to open source projects and how community collaboration drives innovation in software development.

Problem Statement: Legacy System Modernization

- Discuss the challenges and strategies involved in modernizing legacy software systems to improve performance, security, and maintainability.




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Minority Status (Hindi Linguistic)]

Date 4/11/2023

Annual Progress Report on Technical Domains

Reporting Period: [1/10/2022] to [1/10/2023]

In my role as the Technical Domain Coordinator at Shree L.R. Tiwari College of Engineering, I am pleased to present an annual progress report detailing the activities and achievements within my tenure during the past year. This report highlights our commitment to fostering excellence and promoting a culture of continuous improvement within the technical domain.

✓ Establishment of 14 Domains:

- Over the past year, we successfully established 14 domains within the technical department to cater to various interests and specializations. These domains were created to encourage students to explore and develop deeper into their chosen technical areas.

✓ Appointment of Domain In-charges:

- Each domain was assigned a dedicated Domain In-charge who played a crucial role in organizing and leading domain-specific activities. These Domain In-charges were selected based on their expertise and commitment.

✓ Domain-Specific Activities:

- Throughout the year, we organized a wide range of activities within each domain, including domain awareness program, seminars, workshops and technical competitions, projects competitions and In-house internship. These activities aimed to enhance the practical knowledge and skills of students in their chosen fields.

✓ Professional Development Opportunities:

- To enrich our students' academic experience, we arranged guest lectures, webinars. This provided them with exposure to real-world applications of their technical knowledge.




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✓ Participation and Competitions:

- Our students actively participated in various technical competitions at both regional and national levels, showcasing their talent and capabilities. We are proud to report numerous wins and accolades in these events.

✓ Prayas:

- It is an initiative to solve real time industry oriented simple problems through which we try to bridge the gap of academia and industry. On every Friday, we release some problem statement for our student.

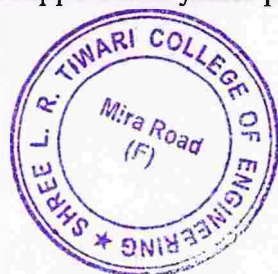
✓ Challenges Faced:

- While we have made significant progress, we also encountered some challenges during the year. These included the need for additional resources to support domain-specific activities, coordinating schedules with students, and ensuring effective communication across all domains.

✓ Future Initiatives:

Looking ahead, we plan to address these challenges and continue to grow and improve our technical domain. Some of the initiatives for the upcoming year include:

1. **Resource Allocation:** We will explore opportunities for securing additional resources to enhance domain-specific activities.
2. **Enhanced Communication:** We will work on improving communication channels within and between domains to ensure better coordination and information sharing.
3. **Expansion of Activities:** We aim to broaden the scope of domain-specific activities, including research projects and collaborative efforts with industry partners.
4. **Mentorship Programs:** We will initiate mentorship programs, where senior students can guide and support their junior peers within their respective domains.




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In conclusion, the past year has been marked by significant progress and achievements within the technical domain at Shree L.R. Tiwari College of Engineering. We are committed to nurturing the talents of our students and providing them with opportunities for growth and development in their chosen fields.

I would like to express my gratitude to the faculty, staff, and students who have played a pivotal role in these accomplishments. All thanks to respected Principal Sir for giving me such opportunity. With the ongoing support and dedication of the entire college community, I am confident that we will continue to excel in the years to come. For more information, I have attached list of domain wise activities conducted and number of problem statements released.

Thank you very much!!!

Your's sincerely,

Mr. Sandeep Dwivedi
Technical Domain coordinator




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Kangkiva Park, Mira Road.


Size Pl. Take IIP From All Domain Incharge
and attach with this Also Ask them to submit
Plan & Action For Next Semester

A.P.R is good Initiative You Need to give statistics
do quantity things which you mention in A.P.R

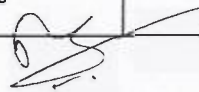
- Let Follow Hierarchy. For Reporting
1. Inform Domain Incharge to have meeting of their group & submit Report for their domain & their activity
 2. Then you collect & create report with your vision Direction
 3. Then have meeting with Principal to formalize the Road Map.

List of the activities conducted by domains 2022-23

Sr. No.	Domain Name	Domain Incharge	Names of the activities conducted	No. of Problem Statement released under Prayas
1	Artificial Intelligence and Data Science (Electronics & Computer Science)	Ms. Sheetal Mahadik	OpenAI ChatGpt challenge	3
2	Semiconductor Devices & VLSI Design (Electronics & Computer Science)	Ms. Aarti Naik	In-house Internship on Digital VLSI Design	-
3	Internet of Things (IoT) & Embedded System (Electronics & Telecommunication)	Mr. Aditya Desai	In-house internship on IOT, Inter-collegiate technical Event 'ROBO ROUTE RUMBLE' at SFIT(won 3rd prize)	3
4	Signal Processing & Communication Engineering (Electronics & Telecommunication)	Ms. Aparna Majare	1)In-house Internship on 5G, 2)Animation using Python, 3)I. V. to VJTI for ISRO exhibition, 4)Session on"Basics of DTSP & its application"under Vidyanjali HEI	9 + 01
5	IT infrastructure and Security (Computer Engineering)	Mr. Rajesh Gaikwad	In-house Internship on Cyber Security	--
6	Blockchain (Computer Engineering)	Mr. Pravin Jangir	Training for Lab System	10
7	Industry 4.0 (Mechanical Engineering)	Mr. Atul Mishra	FDP on Industry 4.0,Inter-collegiate technical Event 'ROBO ROUTE RUMBLE' at SFIT(won 3rd prize)	10 + 01
8	Hybrid Energy Resourse (Mechanical Engineering)	Mr. Ganesh Watelkar	Industrial training on E-Vehicle	4
9	Structural Engineering and extream structure (Civil Department)	Ms. Mrunalini Deshmukh	Audit course -structural & architecture aspect in civil engineering	5
10	Sustainable Engineering & Technology (Civil Department)	Mr.Pushkar Bharambe	1.Webinar on My Environmental experience in nutshell 2 Site Visit at Waste Exhibition Expo at Bombay Exhibition Centre 3.2 Site Visit at IFAT at	3
11	Software Development (IT Department)	Ms. Madhuri Gedam/Swati Bhatt	In-house internship on AWS	1
12	WebX.O (IT Department)	Ms. Surekha Mali	Web Development Event at college level In-house internship on 3D web development Awareness regarding Domain	10(6 solved)
13	Engineering Mathematics (HAS)	Ms. Usha Bag	Lectures conducted in AI/ML course	-
14	Communication skills (HAS)	Dr. Monica MDR Wagh	1. Digonstic Test For FE students 2. ASSESSMENT session for Soft skills 3. Pre-Placement Activity	3

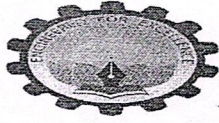

 Mr. Sandeep Dwivedi
 Technical Domain Coordinator

Dr. Umesh Bhadade
 Vice-Principal


 Dr. Deven Shah
 Principal





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Date:-

Annual Progress Report of Technical domains

Name of domain	Industry 4.0
Department of domain	Mechanical Engineering
Domain In-charge	Mr. Atulkumar Mishra
Domain Members	Mr. Bhavik Modi, Mr. P. Damodhar.
Have you conducted awareness program of your domain	Yes
Do you have list of students interested in your domain (Mention count)	No
Name & No. of activities conducted through your domain	1. FDP on Industry 4.0, 2. Inter-collegiate technical Event ' ROBO ROUTE RUMBLE ' at SFIT (won 3rd prize)
No. of problem statements released by your domain under "Prayas" (If it is below 10 provide the reason)	11
No. of solution received	3
Do you find your domain effective if no provide the reasons	Yes
Your plans to make your domain effective	1. Increase the Involvement students in various activities. 2. Motivate Students to solve problem statement of Prayas. 3. We will plan effective orientation for new students
List of upcoming activities of your domain	1. Project competition 2. Quiz competition 3. Poster making Competition.

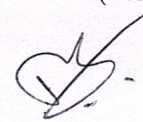

Mr. Atulkumar Mishra
(Domain In-charge)


Mr. Sandeep Dwivedi
(TDC)

Dr. Umesh Bhadade
(Vice-Principal)

Dr. Deven Shah
(Principal)



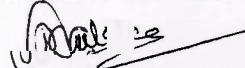

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Date: 05.12.2023

Annual Progress Report of Technical Domains

Name of domain	Professional Communication And Ethics
Department of domain	Humanities & Applied Sciences
Domain In-charge	Dr. Monika MDR Wagh
Domain Members	Ms. Oindrila Mukherjee, Ms. Tarannum Khan, Ms. Saumya Philip
Have you conducted awareness program of your domain	No, not as such for the reason that students already have the PCE course in second and fifth semester hence maximum activities are conducted during the semester which are really useful for them to improve their communication skills. Besides, students are already aware about the domain as the domain members themselves are teaching PCE course to them in both the semesters
Do you have list of students interested in your domain (Mention count)	A list of students those who really need to join the domain is prepared (Count= 94)
Name & No. of activities conducted through your domain	1.Pre Placement Activity for third year students 2.Diagnostic Test for First Year Students to assess their basic knowledge of English
No. of problem statements released by your domain under "Prayas" (If it is below 10 provide the reason)	Only three problem statements were released. These three statements were related to the basic concept of grammar for the functional use of English language. The domain does not specify main technical subjects workable for the research so the number of problem statement is less.
No. of solution received	NIL
Do you find your domain effective if no provide the reasons	Domain is effective and certainly has a noteworthy role in overall development of a personality. But at the same time many constraints are in the independent working of the domain. So, many activities are common with PCE Course activities conducted in Sem-II and Sem -V
Your plans to make your domain effective	To receive a proper schedule from different departments to conduct the sessions under PCE domain especially for III, IV and VI semester.
List of upcoming activities of your domain	1 Pre placement Activity for third year 2. Special sessions/ Activities for first year students


Dr. Monika MDR Wagh
(Domain In-charge)


Mr. Sandeep Dwivedi
(TDC)

Dr. Umesh Bhadade
(Vice-Principal)

Dr. Deven Shah
(Principal)





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Date: - 02/12/2023

Annual Progress Report of Technical domains

Name of domain	Signal Processing and Communication
Department of domain	Electronics & Telecommunication Engineering
Domain In-charge	Mrs. Aparna Majare
Domain Members	1. Mr. Sandeep Dwivedi 2. Mrs. Shruti Patil 3. Mrs. Shruti Patil 4. Mrs. Swapna Patil 5. Mrs. Snehal Shah 6. Mrs. Namrata Kulkarni 7. Ms. Menka Singh
Have you conducted awareness program of your domain	Yes
Do you have list of students interested in your domain (Mention count)	No
Name & No. of activities conducted through your domain	1) In-house Internship on 5G, 2) Animation using Python, 3) I.V. to VJTI for ISRO exhibition, 4) Session on "Basics of DTSP & its application" under Vidyanjali HEI 5) Current & Future Prospects of Electronics & Telecommunication Engg.
No. of problem statements released by your domain under "Prayas" (If it is below 10 provide the reason)	10
No. of solution received	01
Do you find your domain effective if no provide the reasons	No The Signal Processing and Communication domain is very vast. It requires several days of consistent efforts. The major crux of this domain lies in the basic mathematical concepts where students used to be reluctant.


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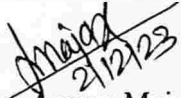


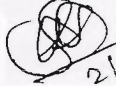
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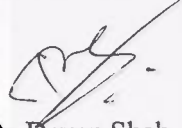
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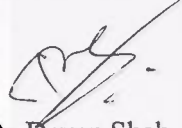
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Your plans to make your domain effective	Need to release more interesting problem statements in the coming semester and motivate students to find solutions.
List of upcoming activities of your domain	<ol style="list-style-type: none">1. Add on Course & Internship on Image Processing and AIML using Python from 8th December 2023 to 15th December 20232. Release Problem Statements in even semester3. Project Competition


Mrs. Aparna Majare
(Domain In-charge)


Mr. Sandeep Dwivedi
(TDC)


Dr. Umesh Bhadade
(Vice-Principal)


Dr. Deven Shah
(Principal)




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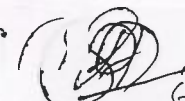
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Date 6/12/23

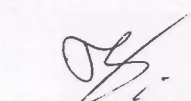
Annual Progress Report of Technical domains

Name of domain	Machine learning & Data Science
Department of domain	ECS & IT
Domain In-charge	Dr. Sheetal Mahadik
Domain Members	Mrs. Neelam phadnis Mrs. Sonali padale
Have you conducted awareness program of your domain	Yes/No
Do you have list of students interested in your domain (Mention count)	Yes/No
Name & No. of activities conducted through your domain	Open AI chat GPT challenge
No. of problem statements released by your domain under "Prayas" (If it is below 10 provide the reason)	03
No. of solution received	00
Do you find your domain effective if no provide the reasons	Yes/No
Your plans to make your domain effective	i) Involve technical team of student council to & professional body in domain activity.
List of upcoming activities of your domain	=> awareness program


 (Domain In-charge)

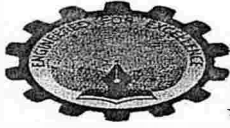

 Mr. Sandeep Dwivedi
 (TDC)


 Dr. Umesh Bhadade
 (Vice-Principal)


 Dr. Deven Shah
 (Principal)




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 Kanakiya Park, Mira Road (E).



Date:-

Annual Progress Report of Technical domains

Name of domain	Software Development
Department of domain	Information Technology
Domain In-charge	Mrs. Madhuri Gedam, Swati Bhatt.
Domain Members	
Have you conducted awareness program of your domain	Yes/No ✓
Do you have list of students interested in your domain (Mention count)	Yes/No Students of IT-dept (SEIT)
Name & No. of activities conducted through your domain	2 Activities : NDI Quiz Expense Tracker
No. of problem statements released by your domain under "Prayas" (If it is below 10 provide the reason)	2 released. As-signed late
No. of solution received	In Progress
Do you find your domain effective if no provide the reasons	Yes/No ✓
Your plans to make your domain effective	Internship, Quiz, technical events.
List of upcoming activities of your domain	Internships, Quiz, technical event.

Dr. Sandeep Dwivedi
(Domain In-charge)

Dr. Sandeep Dwivedi
5/12/23
Mr. Sandeep Dwivedi
(TDC)

Dr. Umesh Bhadade
Dr. Umesh Bhadade
(Vice-Principal)

Dr. Deven Shah
Dr. Deven Shah
(Principal)



Dr. Deven Shah
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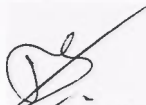
Annual Progress Report of Technical domains

Name of domain	Hybrid Energy Resources
Department of domain	Mechanical Engineering.
Domain In-charge	Mr. Ganesh V. Wafelkar
Domain Members	Mr. Manish Rame, Mrs. Radhika Thokare
Have you conducted awareness program of your domain	Yes/No
Do you have list of students interested in your domain (Mention count)	Yes/No
Name & No. of activities conducted through your domain	1) Final year project on 'Battery management system' under guidance of Amarnath Sir. 2) participation of students in electr vehicle apprenticeship.
No. of problem statements released by your domain under "Prayas" (If it is below 10 provide the reason)	04
No. of solution received	-
Do you find your domain effective if no provide the reasons	Yes/No
Your plans to make your domain effective	1. Increase involvement of students in 'Prayas' activities. 2. Encourage students to resolve statement of prayas. 3. Effective orientation will be conducted for new students.
List of upcoming activities of your domain	1. project competition 2. quiz competition.


 Mr. Wafelkar G.V.
 (Domain In-charge)


 Mr. Sandeep Dwivedi
 (TDC)

Dr. Umesh Bhadade
 (Vice-Principal)


 Dr. Deven Shah
 (Principal)



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 (Noida, Maharashtra)

Date:-

Annual Progress Report of Technical domains

Name of domain	Webx.
Department of domain	IT
Domain In-charge	Mrs. Surekha Mahi
Domain Members	Harsha Dave, Tanvi Mam, Pravin Jahangid
Have you conducted awareness program of your domain	Yes/No
Do you have list of students interested in your domain (Mention count)	Yes/No almost all from IT department (SEIT)
Name & No. of activities conducted through your domain	3 Activities 1] Awareness through quiz 2] web development Event 3] In-house Internship
No. of problem statements released by your domain under "Prayas" (If it is below 10 provide the reason)	10 released by Webx domain
No. of solution received	06 till now Sem end (end Sem 2023-24)
Do you find your domain effective if no provide the reasons	Yes/No
Your plans to make your domain effective	We plan for projects, quiz, Activities in technical events, Internship.
List of upcoming activities of your domain	We plan for 2] Activities 3] quiz 1] Internship

Surekha
 Mrs. Surekha Mahi
 (Domain In-charge)

Sandeep Dwivedi
 Mr. Sandeep Dwivedi
 (TDC)

Umesh Bhadade
 Dr. Umesh Bhadade
 (Vice-Principal)

Deven Shah
 Dr. Deven Shah
 (Principal)



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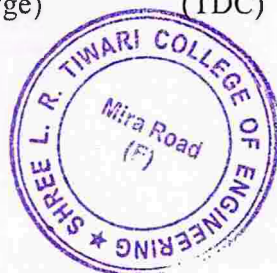
Name of domain	Blockchain
Department of domain	
Domain In-charge	Pravin Jangid
Domain Members	Mr. Harsha Dave, Mr. Manthan Joshi
Have you conducted awareness program of your domain	Yes/No <input checked="" type="checkbox"/> Yes
Do you have list of students interested in your domain (Mention count)	Yes/No <input checked="" type="checkbox"/> Yes
Name & No. of activities conducted through your domain	10
No. of problem statements released by your domain under "Prayas" (If it is below 10 provide the reason)	10
No. of solution received	7
Do you find your domain effective if no provide the reasons	Yes No <input checked="" type="checkbox"/> Yes
Your plans to make your domain effective	Quiz, Project competitions
List of upcoming activities of your domain	Setting up ~ Ethereum node.

Pravin
 (Domain In-charge)

Mr. Sandeep Dwivedi
 (TDC)

Dr. Umesh Bhadade
 (Vice-Principal)

Deven Shah
 (Principal)



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 Minority Status (Hindi Linguistic)]

Date: 16/12/23

Annual Progress Report of Technical domains

Name of domain	Structural and Extreme Engineering
Department of domain	Civil Engg & Mechanical Engg.
Domain In-charge	Dr. Mrunalini Deshmukh
Domain Members	Abhejit Samanta, Aditya Prabhakar, Durgesh Pal
Have you conducted awareness program of your domain	Yes/No ✓
Do you have list of students interested in your domain (Mention count)	Yes/No ✓ 20 students.
Name & No. of activities conducted through your domain	1 week workshop 9th to 17th January 2023.
No. of problem statements released by your domain under "Prayas" (If it is below 10 provide the reason)	11
No. of solution received	09
Do you find your domain effective if no provide the reasons	Yes/No ✓
Your plans to make your domain effective	Planning structural workshop for Civil & Mechanical Engg. Students.
List of upcoming activities of your domain	1) Workshop in Structural Engg. 2) Software Training.

M. Deshmukh
 Dr. Mrunalini Deshmukh
 (Domain In-charge)

S. Dwivedi
 Mr. Sandeep Dwivedi
 (TDC)

U. Bhadade
 Dr. Umesh Bhadade
 (Vice-Principal)

D. Shah
 Dr. Deven Shah
 (Principal)

Pl. Prepare Summary
 Put your names



Domain & then
D. Shah

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Date:-

Annual Progress Report of Technical domains

Name of domain	Cyber Security Club
Department of domain	Institute
Domain In-charge	Mr. Rajesh Gaikwad
Domain Members	
Have you conducted awareness program of your domain	Yes/No
Do you have list of students interested in your domain (Mention count)	Yes/No 20 students
Name & No. of activities conducted through your domain	1) Seminar on Orientation lecture on cyber security. 2) Audit course for cyber laws jointly conducted with law college.
No. of problem statements released by your domain under "Prayas" (If it is below 10 provide the reason)	students showed no response.
No. of solution received	Nil.
Do you find your domain effective if no provide the reasons	Yes/No. Not effective because most of time Seminar Hall is busy with some other activities. This year exam work is not there.
Your plans to make your domain effective	1) Create a team of enthusiastic students 2) conduct workshops for cyber security and give on job training and internship to students.
List of upcoming activities of your domain	1) Internship on Cyber Security 2) On-job training. 3) I.V. & Directorate of Digital Forensics Lab. Kalina Mumbai.

(Domain In-charge)

Mr. Sandeep Dwivedi
 (TDC)

Dr. Umesh Bhadade
 (Vice-Principal)

Dr. Deven Shah
 (Principal)

§ No. of problem released



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Date:-

Annual Progress Report of Technical domains

Name of domain	Sustainable Engineering & Technology
Department of domain	Civil
Domain In-charge	Pushkar Bharambe
Domain Members	
Have you conducted awareness program of your domain	Yes/No
Do you have list of students interested in your domain (Mention count)	Yes/No
Name & No. of activities conducted through your domain	1. poster making competition 2. site visit at Bhandup water treatment plant 3. webinar on "my Environmental Experience in nutshell."
No. of problem statements released by your domain under "Prayas" (If it is below 10 provide the reason)	10
No. of solution received	In progress
Do you find your domain effective if no provide the reasons	Yes/No
Your plans to make your domain effective	1. Increase number of students in Prayas activities 2. Encourage students to solve statement of prayas
List of upcoming activities of your domain	Internship, quiz project competition site visit, field visit

(Domain In-charge)

Mr. Sandeep Dwivedi
(TDC)Dr. Umesh Bhadade
(Vice-Principal)

Dr. Deven Shah
(Principal)
Mr. Pushkar
Bharambe

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Name of the Institute: SHREE L. R. TIWARI COLLEGE OF ENGINEERING
Acronym of Institute: SLRTCE
Address: Kanakia park, Near Commissioner's Bungalow,
Pin Code: Mira Road Thane- 401107
Latitude: 19.294333 Longitude: 72.867882
Affiliated to: University of Mumbai
Approved By (AICTE/UGC/University): AICTE
Approval Number: I-6969851 AISHE Code: C-46313
Branch of Engineering / Science: E&TC, ECS, IT, CMPN, MECH & CIVIL
Number of Students/ Faculties: 1535 + 89 faculties Total: 1624
Total number of computers available for Virtual Labs use: 30
Internet bandwidth (in mbps): 625

Name of the Head of Institute / Principal: Dr. Deven Shah
Email: principal@slrtce.in Mobile: 9029726083

Proposed Nodal Centre Coordinator (NCC): Mr. Sandeep A. Dwivedi
Email: Sandeep.dwivedi236@gmail.com Mobile: 8412848932

Department: Electronics & Telecommunication
Engineering

It is certified that

- The institute is recognized by the AICTE/UGC.
- The institute has necessary and adequate infrastructure to host the Virtual Labs.
- Strict adherence to standard lab procedures and cyber security laws will be followed.
- Virtual Labs may withdraw/stop connectivity without giving any prior notice or reasons.
- This EOI for Virtual Labs usage is valid up to 31st December 2024 and requires renewal by the COEP Technological University, Pune for continued support.

Signature & Stamp

Head of Institute/ Principal



Date: 18/12/2023

- Send the duly signed SCANNED COPY of this EOI to Virtual Labs team.
- Keep the HARD COPY with you in a Virtual Labs file for the record.


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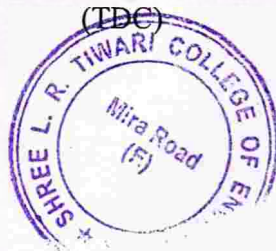
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Date:-

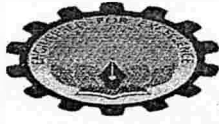
Annual Progress Report of Technical domains

Name of domain	
Department of domain	
Domain In-charge	
Domain Members	
Have you conducted awareness program of your domain	Yes/No
Do you have list of students interested in your domain (Mention count)	Yes/No
Name & No. of activities conducted through your domain	
No. of problem statements released by your domain under "Prayas" (If it is below 10 provide the reason)	
No. of solution received	
Do you find your domain effective if no provide the reasons	Yes/No
Your plans to make your domain effective	
List of upcoming activities of your domain	

(Domain In-charge)

Mr. Sandeep Dwivedi
(TDC)Dr. Umesh Bhadade
(Vice-Principal)Dr. Deven Shah
(Principal)

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TDC
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Annual Progress Report of Technical domains

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Your plans to make your domain effective	
List of upcoming activities of your domain	

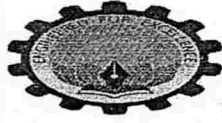
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 (Domain In-charge) (IDC)

Dr. Umesh Bhadade
 (Vice-Principal)

Dr. D even Shah
 (Principal)



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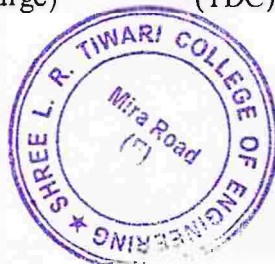
Annual Progress Report of Technical domains

Name of domain	
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Domain In-charge	
Domain Members	
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Your plans to make your domain effective	
List of upcoming activities of your domain	

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