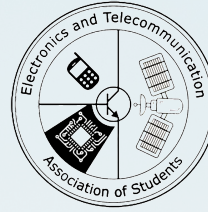


**Government College of Engineering Amravati**  
*Towards Global Technological Excellence*

# THE ETAS



# CHRONICLE

For the Students By the Students



MARCH 2022 | ISSUE 1

**Excellence Through Education & Dedication**

# TABLE OF CONTENTS

<b>Sr No.</b>	<b>CONTENT</b>	<b>PAGE NO.</b>
1	From Principal's Desk	3
2	From Head of Department's Desk	4
3	Message from ETAS Faculty Incharge.	4
4	Message from Founder of ETAS	5
5	Messages from ExTC Faculties	6
6	"Electronics is the Mother of all Branches!"	7
7	ETAS Inauguration	10
8	ETAS Committee	11
9	JAVA Workshop	12
10	While Tunnelling Through the Reality of Life!	13
11	Solstice	15
12	VIBGYOR	16
13	कवितामृतकूप	18
14	House Of ART	20
15	Sports Highlightz	22
16	AI ML Workshop	25
17	ETAS Technical Crosswords	26
18	Magazine Committee	27



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## ***From the Desk of Principal***



***Dr. A. M. Mahalle***

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First of all, I would like to Congratulate all the Faculties and the Students for the Launch of the Most Awaited Magazine of the ETAS- The Chronicle. The efforts that the Faculties and the students have put together are really Commendable. It gives me immense pleasure to be invited for the Inaugural of the Magazine- Chronicle. I wish all the Best to the whole Department of Electronics for their Future Endeavours. Such type of Extra-Curricular activities should be encouraged among the students. This will not only boost up the Confidence of Students but also will help them in their Overall Personality Development. Once again, I wish All the Very Best to each and everyone who is involved in this Great Initiative.

Thank You!

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## ***From Head of Department's Desk***

Creating an interesting, informative, and easy-to-read magazine article is something that every publication needs to know, regardless of their specific themes and topics. Usually, a magazine article can discuss trending topics and themes, or more specific ones such as geography, cuisine, fashion, music, and other fields of interest. Nonetheless, all of these magazine articles need to abide by the principle of writing the latest events in order to make the readers interested in the recent events. Furthermore, a magazine article sometimes needs to include interviews with the interviewees to get the most accurate information.



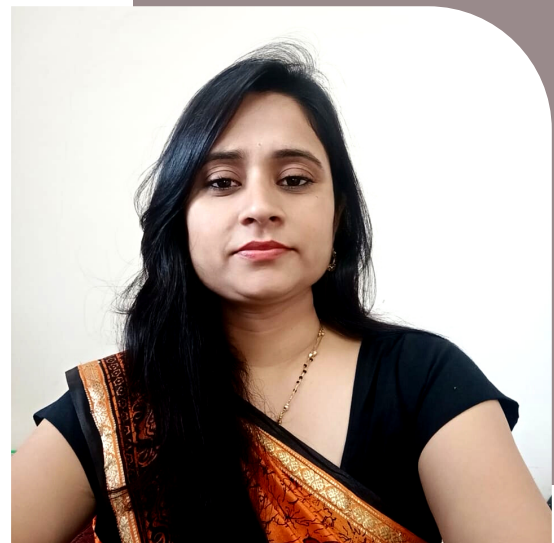
***Dr. P. R. Deshmukh***

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## ***From ETAS Faculty Incharge***

Usually, a magazine article can discuss trending topics and themes, or more specific ones such as geography, cuisine, fashion, music, and other fields in interest. Nonetheless, all of these magazine articles need to abide by the principle of writing the latest events in order to make the readers interested with the recent events. Furthermore, a magazine article sometimes needs to include interviews with the interviewees to get the most accurate information.



***Prof. Radhika Harne***

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## ***From Founder of ETAS***

Dear student friends,

I am very happy to put my views for the ETAS newsletter. In fact, I am very excited to give a message for the same Student Organisation in 2022 which I founded in 2004, 18 years back, when the Electronics Department was functional on the first floor in the building where Computer, IT and Instrumentation is functioning today. The idea behind the formation of

ETAS was to provide an additional platform to develop and showcase the skill set of the departmental students. The skillset plays a very important role in the life to become a successful engineer, entrepreneur and finally useful citizen. At the institute level, due to competition, fewer opportunities are available to play a part in various co-curricular and extracurricular activities.

I give my best wishes to the whole committee of ETAS for the further and continuous pursuit of the best in order to provide opportunities needed, in order to develop their skill set, develop understanding to prepare and strengthen themselves to know "truth as a truth and untruth as untruth" which is only possible after developing a conscience and rational thinking.



***Dr. D. V. Rojatkhar***

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***Prof. A. M. Shah***

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ETAS (Electronics and Telecommunication Association of Students) best platform for helping students to expand their knowledge, skills and capabilities. Recognising and rewarding students for great work.

*"If four things are followed – having a great aim, acquiring knowledge, hard work, and perseverance – then anything can be achieved."*

Quoted by **Dr. A.P.J. Abdul Kalam**

The departmental student's association 'ETAS', was instigated in the year 2006 with the prime objective of providing a platform to the students of Electronics and Telecommunication Engg. for organizing various co-curricular and extra-curricular events and motivating student's participation. Since then ETAS has been playing a pivotal role in helping the students sharpen their skills, giving them a hands-on experience of the management of activities.

I hope that the ETAS continues it's tradition of giving prospects to the students thereby helping them in their overall personality development.

I take this opportunity to offer my Best Wishes to the team ETAS for future endeavours with the hope of being able to witness some novel and interesting events under ETAS this year.



***Prof. Neha Pardesi***



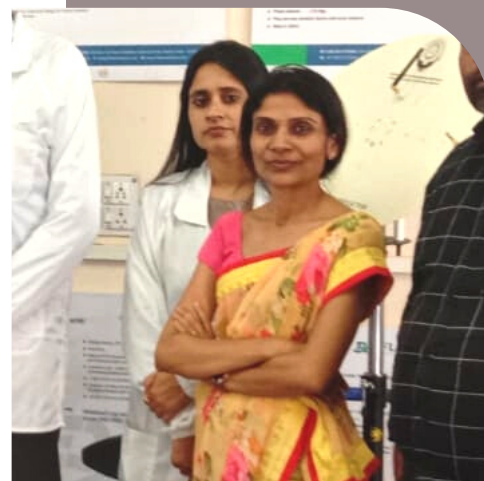
***Dr. Shubhada S. Thakare***

It is indeed a happy moment for our Department as the students have publishing the first edition of the "ETAS Magazine" The most important aspect we could derive from these efforts is that it brings out the various technical and analytical skills of the budding engineers. Magazine also records achievements and various activities of the department. I wish all the very best for releasing this magazine.

My best wishes for the entire endeavour.

The idea behind the formation of ETAS was to provide an additional platform to develop and showcase the skill set of the departmental students also take this opportunity to appeal to all those to become integral and important part, who are still making distance from ETAS to have ever cherishing memories.

I give my best wishes to the whole committee of ETAS!



***Prof. Shweta Meshram***



# "ELECTRONICS IS THE MOTHER OF ALL TECHNOLOGIES!"

We had got a wonderful opportunity to have some great interactive session with our respected Head of the Department Dr. P. R. Deshmukh Sir and we really had a great time interviewing him and knowing his Crystal Clear thoughts about the ETAS Organization.



***Dr. P. R. Deshmukh***

Head Of Department, Electronics & Telecommunication Engineering

**Q1) How do you justify the phrase that "Electronics is the Mother of All Technologies!"**

Ans. See I think that Electronics is the backbone of every industry. This is because of the invention of semiconductors, particularly the P-N Junction. You can just add some additional components to it and you get BJT that operates in different modes. Just change the connection and you will see the output is different.

**Q2) Being an Electronics Faculty what difference have you seen in the past two years and now in terms of technology and Students?**

Ans. Well, in terms of students I can see, it's my observation that students are more oriented towards shortcuts now. They just want everything ready made. It's good that Technology is making huge progress in the field of Electronics out at the same time it is hindering the progress of students.

### **Q3) What is the Roadmap for Electronics Engineers ?**

Ans. Talking about the Electronics branch there are hardly any areas where the application of electronics is not found. Almost every area be it mechanics, computer, etc have some or the other thing related to electronics with it. So, "Basically Electronics is Everywhere!" maximum embedded and IOT are the most trending areas of Electronics. Semiconductors, Electromagnetics are the most in-demand fields.

### **Q4) What can you say about Academic Loss ?**

Ans. The academic loss basically we can take the best example of your batch. Due to corona 2 precious years of your college were a huge loss to you people as some of the major subjects were already completed in online mode. I can understand the concentration of the student hinders in the online mode and hence there's a huge loss of students according to me.

### **Q5) What should we learn sir, along with our Academics to get placements in the Core Companies of Electronics?**

Ans. For Electronics core companies you should be very clear about the fundamentals of Microprocessors and Microcontrollers, you should also be aware of HDL along with this. The second area that we can consider is Signal Processing and the third one can be the Communication area. These are the broad areas which we can consider.

### **Q6) What do you think this is the reason behind though many students are taking admissions in Electronics, Electrical,etc They are switching towards CS,IT Company for the Job Purpose?**

Ans. The market of CS IT has been explored for a long time. And again packages may be one of the reasons. Getting more money and a bit less work-life balance is the tendency of students.



**Q8) What measures should the government take so that the Electronics Industry can be explored more efficiently by students?**

Ans. I think the government's role is less important. What is important is that students are lagging in their knowledge. I wouldn't say that students don't take an effort but practical knowledge is what they are lacking. Fundamentals of Electronics students are not aware of that. They aren't even aware of how to identify different components of Electronics. So I think students must take these points seriously and work towards it.

**Q9) What's your Point of View about ETAS, Sir?**

Ans. Respected HOD Sir - Well, according to me the ETAS Committee should be student-driven rather than faculty. student-driven in the sense, that the involvement of students in the ETAS should be more. Of course, the faculties will be there to guide them step by step if they get stuck but the prime efforts should be of the students. This could also help them in shaping their own future.

For example, a student from the third or final year who is an expert in any one of the subjects can take an expert lecture to guide the students of the first and second year. At least these students of the ETAS committee can give them a proper roadmap about any field.

**Q9) What message would you like to give to students?**

Ans. Keep your fundamentals and basics very clear. Decide your goal of what you want to become in life that is important. While achieving a goal, always keep learning. There's always something to learn from everyone. Take the positive traits of the people around you. And all the very best for your career life as well as for student life. Enjoy the phase while learning!



# INAUGURATION

ETAS

ETAS (Electronics and Telecommunication Association of Students) was inaugurated on 24 March 2022 at 3:00 PM in Electronics and Telecommunication Department from the hands of Dr. P. R. Deshmukh (Head of Department, EXTC).

At the time of inauguration all the faculties, as well as students from each year of EXTC were present. The inauguration began with a ribbon-cutting ceremony of 'Insights', the official notice board of ETAS. The students decorated the notice board, also various things such as sketches, drawings, and quotes were displayed over it.

Respected HOD Dr. P.R. Deshmukh after seeing the response from the students gave a small motivational speech to all of the students who were present over there. After this, the team of ETAS was introduced to Deshmukh Sir. Gaurang Deshpande (overall convenor of the ETAS) introduced Deshmukh Sir to all the convenors as well as the student heads of various committees under ETAS.

All program was conducted under the guidance of ETAS Faculty In-charge Prof. Radhika Harne Mam, Gaurang Deshpande (Overall Convenor), Prajwal Sawle (Treasurer), and Sarthak Khandagale (Third-year Convenor).

The decoration of the Notice Board was done by Saurabh Patil( Second-year Convenor) Aayushi Sarate, Shreyash Charjan, and Yash Pokale from Second-year EXTC. It was not possible without the active response of First-year EXTC students, especially Prajwal Gulhane and Shruti Tambat (First-year Convenors of ETAS).

Moments of the program were captured by Pranav Thakare and Prathamesh Bhonkhade (ETAS social media team).



# ETAS

(ELECTRONICS AND TELECOMMUNICATION ASSOCIATION OF STUDENTS)

## ETAS COMMITTEE MEMBERS

1. GAURANG DESHPANDE (OVERALL CONVENOR FINAL YEAR)
2. PRAJWAL SAWLE (TREASURER FINAL YEAR)
3. SAYALI PAUNIKAR & NEERAJ GAWALI (SUB-TREASURER 3RD YEAR)
4. GOVIND MUNDHADA (CONVENOR FINAL YEAR)
5. SARTHAK KHANDAGALE & RADHIKA WAGH (CONVENOR 3RD YEAR)
6. SAURABH PATIL & SUKHADA MOHOD (CONVENOR 2ND YEAR)
7. SHRUTI TAMBAT & MIHIR JAISWAL (CONVENOR 1ST YEAR)
8. ROHIT KEOLE & CHINMAY PANDE (ORGANIZING SECRETARY)
9. YASH POKALE & SHREYASH CHARJAN (ORGANIZING COMMITTEE)
10. RADHIKA BAKARE & YASHASHREE HADAKE (MAGZINE AND REPORT COMMITTEE)
11. PRATHAMESH BHONKHADE ABHISHEK PATWARDHAN & PRANAV THAKARE (SOCIAL MEDIA COMMITTEE)

ASST. PROF. RADHIKA HARNE

(ETAS FACULTY IN-CHARGE)

DR. P. R. DESHMUKH

HEAD OF DEPARTMENT



# WORKSHOP

ETAS (Electronics and Telecommunication Association of Students) had arranged a workshop on Core Java (J2EE) in Class Room-11 of the Electronics and Telecommunication Department on 25 March 2022 at 4 pm.

**BY ROHIT KEOLE  
(3rd Year ExTC)**

Our respected Head of Department Dr. P. R. Deshmukh Sir addressed the students in the valuable presence of Radhika R. Harne mam (ETAS Faculty In-charge), This workshop was arranged especially for the first and second-year students, to enhance their understanding of the programming languages and the concepts behind them at the very initial level.

This workshop was conducted by Rohit R. Keole from Extc 3 rd year. He covered the following under this workshop -

- About Programming
- What JAVA J2EE is All About
- How JAVA improves itself in past years
- Evolution due to JAVA
- IDEs
- OOPs

Concepts and various other things related to the course. There was a huge response from both the years, they interacted with Rohit during the entire course duration by asking various questions related to the JAVA.

At the time of conclusion Rohit proposed the gratitude towards Head of Department Dr. P. R. Deshmukh Sir and Radhika R. Harne mam (ETAS Faculty In-charge), 3 rd year ETAS Convenor Sarthak L. Khandagale and the students present over there for their support. Below are some Moments of the workshop that had been captured at that time by ETAS Social Media Committee member Prathamesh Bhonkhade from Extc 3rd year.





# WHILE TUNNELLING THROUGH THE

## Reality of Life!

*Some have said, "Life is Beautiful". And yes it is. Isn't it?? But life is too uncertain. We can't predict or expect anything in terms of life. And if we do so, we often end up disappointing ourselves. Predicting the future and expecting something from life is like inviting trouble for oneself to cause harm to us. And sometimes irrespective of our awareness we allow such thoughts to clutter our minds which further contributes to the junk we all carry with us.*

*Now, why so?? It's because we allow such Unwanted debris of thoughts to enter the threshold of our mind. When we do something and expect something in return and if it does not happen in reality as per our "Fancy Expectations and Imaginations", then we easily get so disturbed by that thought that sometimes we hate ourselves and blame ourselves for the outcome. Often people begin to lose interest in the things which once were their favourite. This happens because of our fancy and too high expectations.*

*So what to do now?? Not to expect anything in life?? Well 😊😊, this is impossible! We as human beings will always tend to expect something in return. Be it an appreciation, an appraisal, a medal, a felicitation, etc. So the most essential question arises what to expect then?*



*Well according to me, If we are doing something whole-heartedly, giving our 100% and putting our whole mind, body, and soul into it, then we can surely expect something in return. Now, what is that?? That is contentment...That is the feeling of satisfaction that we have done our best and since we have put so much effort and endeavour into it, everything will be all right.*

*So, while tunnelling i.e. going through the reality of life Never ever forget to enjoy the process. Now how will you enjoy??😊The answer is by doing a work that you like, maybe your passion, your hobby, etc. And by putting your whole body, mind, and soul into it, you will surely be satisfied.*

*Summing up the whole thing, I can say while tunnelling through the reality of life never forgets to enjoy the process live in the present and that to expect "Contentment" from life. Remember journeys are more beautiful than destinations and our life is one exquisite journey. Let's start living it to the fullest!*

*Would like to add some of my lines here:*

*Ye Zindagi bhi badi ajib hai..  
Paa loo toh Manzil hai..  
Pehchan loo toh Tohfa hai..  
Aurr Jee loo toh Jannat hai...*

*-Sayali Paunikar*  
3rd Year E&TC

# Solstice

*Winters had been the favourite part of the year for her, until this one.  
On a chilly evening, everyone was up with their warm jackets and pullovers,  
but her.  
She stood in a corner, away from the bonfire, lonely; not alone.  
She kept denying to leave that place. Maybe she did not want the warmth to  
melt her cold heart down into a stream of tears, every drop holding the  
potential to blithely unwrap the glimpses of battles she had been brawling  
with.  
She chose to just have a sight of all from a distance. Maybe that would also  
help to stay away from being answerable to every other person.  
She felt that her scattered dynamism was shivering, with a hope that some  
spirit will just put it together with the same compassion.  
Her once glown up excitement just stopped pervading to places.  
She knew that she just needed time for gathering herself up but also an ear  
that could just listen to how her affable nature has turned austere.  
She sipped her steamed coffee when it turned cold.  
Unaware about her vicinity, she kept staring at the falling leaves of the  
Gulmohar tree in the backyard.  
Remembering the old days when the dazzling yellow flowers embraced the  
tree and made it dance in joy, she smirked, with the realization that everything  
that blooms has to wither one day too!  
She got too complacent with herself that she couldn't comprehend the  
mayhem outside or was it just only within?  
Her hands were frozen, but she couldn't sense the chills. Here's when she  
grasped that apart from the weather what turned coldest was nothing but her.*

*-Radhika Bakare*  
3rd Year E&TC











मी एक अनोळखी!

समजलं आता सगळं  
जाणीव नव्हती कशाचीच...  
माणुसकी नव्हती कुणाजवळ  
नातेसंबंध जपण्याची...  
कारण...  
कारण मी एक अनोळखी ॥

जीवनाच्या त्या तिजोरीत  
होता मैत्रीचा खजिना...  
लवकर संपावी असाच वाटलं  
असेल,  
होत्या फक्त कृतघ्न भावना...  
कारण...  
कारण मी एक अनोळखी ॥

सरड्याची धाव कुंपणापर्यंत  
असंच काहीसं होतं ते दृश्य...  
वाटलं नव्हतं सहजासहजी  
होईल ते अस्पृश्य...  
कारण...  
कारण मी एक अनोळखी ॥

आयुष्यातील ते क्षण  
होते अगदी अविस्मरणीय...  
कुठे तरी माझीच चूक असेल,  
झालेच शेवटी काल्पनिक...  
कारण...  
कारण मी एक अनोळखी ॥

अंतःकरणाचा तो प्रवास  
शेवटचाच तो श्वास...  
विचारांमधूनही आठवण सुटेना  
असाच होता त्यांचा हव्यास...  
कारण...  
कारण मी एक अनोळखी ॥

- अद्वैत इंगळे  
द्वितीय वर्ष

दिलों से खेलती है दुनिया  
साजीशोका कारोबार करती है ।  
मगर तुम न तुटना ऐ दोस्त  
ये जिंदगी है हरबार ऐसा करती है ।

की अब बस चले पडो जहासे ठहरे हुए हो  
सवारलों खुदको नये सिरे से जहासे बिखरे हुए हो  
के तुम भी खिलोगे आबाद हो जाओगे  
अगर मंजील को अपनी जि जान से चाहोगे

की फिक्र करो तो अब बस मंजिल की  
रास्ते का ना तुम जिक्र करो ।  
हाँ, हाँ बुक है तुम्हारा उन्हीं बुलेदीयो पे  
बस टूटे हुये हौसले को अपनी शान से ठिक करो

- रोशन बनसोड  
तृतीय वर्ष

एक अनंत

एकटा जीव सदा शिव,  
कोण करेल कुणाची कीव,  
येथे कोणाला कोणाचे काय देणे,  
प्रत्येकाला प्रिय फक्त स्वतःचा जीव.

कोण कोणाचे, कोण कोणाचे,  
कोणीही कोणाचे नाही.  
शब्द सांगती नाती फक्त  
येथे सोबत स्वतः शिवाय कोणी नाही.

तुला माझे, मला तुझे काय देणे लागते ?  
प्रसंगी हात तुझा लागतो, यापलीकडे काय नाते लागते ?

एकटा आलास, एकटाचं जाणार का सोबती तुला लागतो  
? सोडून सगळे इथेचं जायचे. मग का पसारा तु मांडतो ?

येथे फिरण्यास आलाय फक्त तु आनंद घेऊन जा.  
कारण कर्म तुला इथेचं फेडून नायचे आहेत.

- रघुनंदन चरखा  
तृतीय वर्ष

YOUR APPEALING SMIRK WHEN YOU  
ARE PROUD  
YOUR SPARKLING EYES WHEN THEY  
GO LOUD

YOUR BLUSHY FACE WHEN YOU ARE  
SHY  
YOUR HOPES FLICKERING LIKE THE  
STARS IN THE SKY

YOUR SILKY HAIR IN ALL THE  
SHADES  
YOUR TANTRUMS THAT HIT LIKE  
1000 BLADES

YOUR PRICELESS EXPRESSIONS  
WHEN YOU ARE SURPRISED  
THE MOMENT YOU SPEAK SWEET I  
AM PARALYZED

REASON I'VE FALLEN FOR YOU IS  
THAT YOU ARE GRAMMATICAL  
KNOW WHAT DOPE MEANS? YOU  
ARE IDENTICAL

YOU WILL NEVER KNOW HOW MUCH  
I WANT YOU  
LOVING YOU IS LACONIC  
DESCRIPTION OF ALL I WANT TO DO

-ANUSHKA GUPTA  
SECOND YEAR

DEAR YOUTH

I MAY LOSE SOMETIMES  
BUT I CAN'T GIVE UP  
WHENEVER I FEEL INSECURE  
I TELL MYSELF GROW UP

YOU GIVE ME POWER  
BUT YOU OFFER THE ENERGY TO WASTE IT  
AND I AM AWARE HOW  
THE CONTROL OF IT IS UPON MY HEARTBEAT

YOU MAKE ME FEEL SUPERIOR  
BUT ALWAYS PUT THERE BARRIER

AND I STUMBLE UPON IT  
A FALL FROM THE SEVENTH MOON

NOW THAT I AM TRAPPED  
IN YOUR MAZE WITH NO ESCAPE  
CAN'T EVEN REBEGIN  
LIKE I DO TO A VOICE TAPE

YOU LOOK LIKE AN ANGEL FROM FRONT  
BUT ACTUALLY A DEVIL'S GUIDE  
WITH THE FIRE WINGS  
RIDING A DIRT BIKE

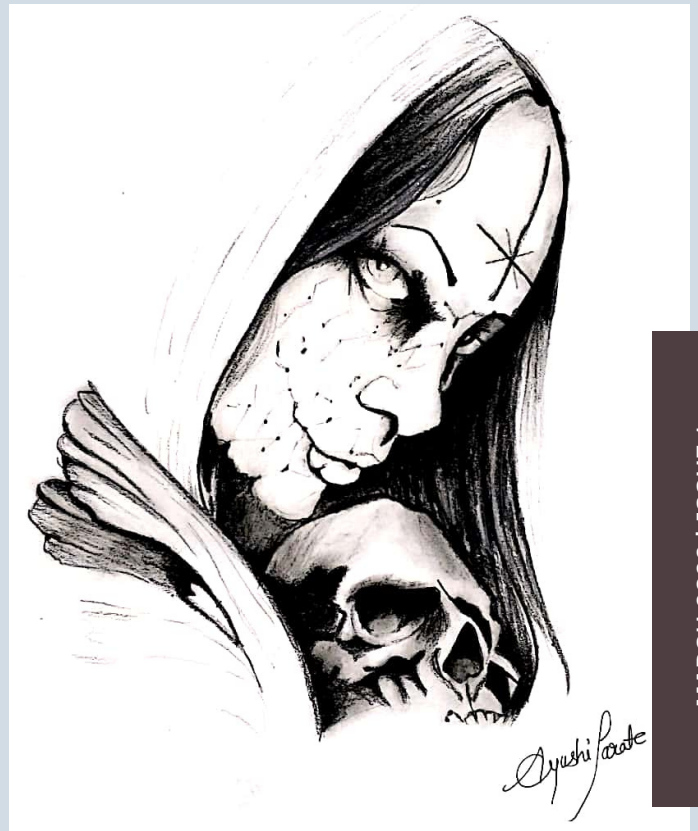
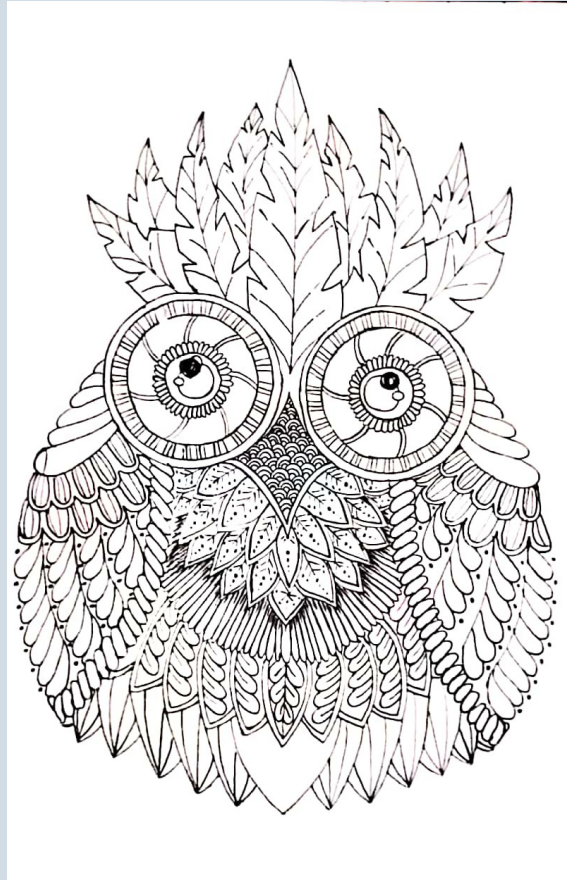
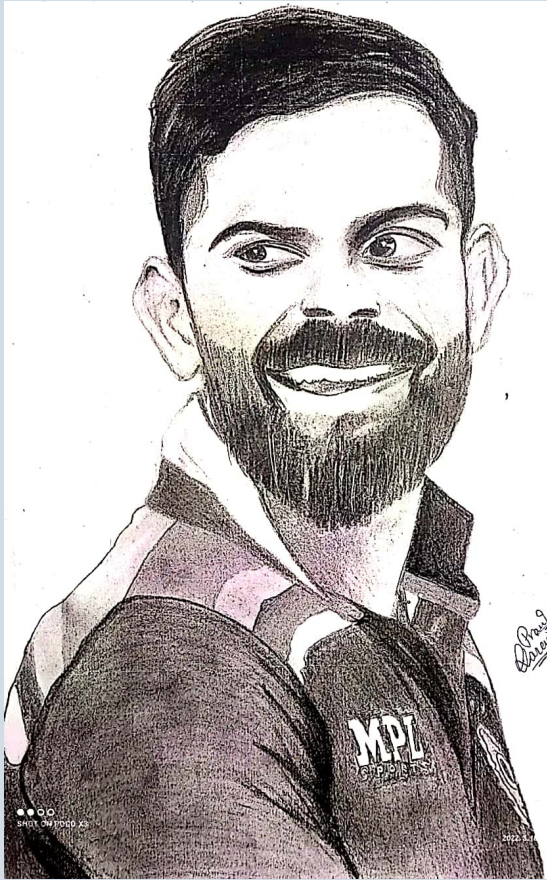
AS LONG AS YOU WERE THERE  
I HAD THE STRENGTH  
AS SOON AS YOU GO  
THERE'S A VERY LITTLE STRENGTH LENGTH

I WAS EAGER TO GREET YOU BACK THEN  
BUT I AM TOO APOLOGETIC TO LEAVE YOU AGAIN

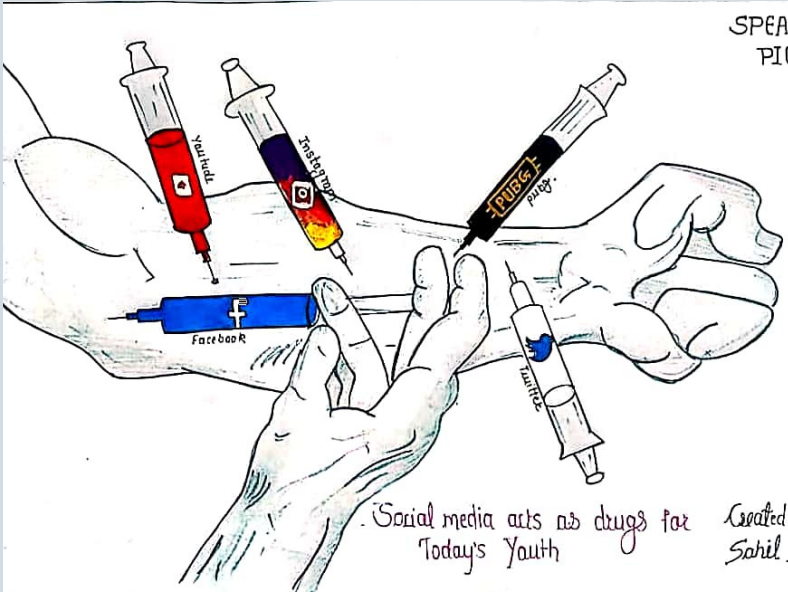
-ANUSHKA GUPTA  
SECOND YEAR



# House of ART









# Sports Highlightz

## SHAURYA TROPHY



ETAS (Electronics and Telecommunication Association of Students) conducted Shaurya Trophy after a gap of two years. The gap of two years affected students mentally as well as physically. To re-energize the spirit of students ETAS conducted Shaurya Trophy. The event was conducted from 29th March to 1st April. There was an atmosphere full of excitement after the announcement of the event. Shaurya Trophy mainly consisted of five sports listed as follows: Badminton, Lagori, Tug of War, Chess, and Box Cricket. Students, as well as teachers, showed active participation in each of the events.





The inauguration of the Shaurya Trophy took place with the Badminton. ETAS arranged the matches of the faculty members in which our Respected Head of Department Dr. P. R. Deshmukh Sir, Prof. Radhika Harne Ma'am (ETAS Faculty In-charge) along with Dr. D. V. Rojatkhar Sir, Prof. Ameer Shah Sir, Prof. Neha Pardesi Ma'am played the matches with zeal. After these matches, the Shaurya Trophy started with the matches of students. Each year had four teams with two players each in one team.

Also, two teams each of Boys, as well as Girls participated. The winner from the Boys was Moksha Chole and Shreyash Kothwale (1st year) and from the Girls was Samiksha Maraskolhe and Aishwarya Mundada.

On the second day of Shaurya Trophy the events of Lagori and Tug of War took place. Each team consisting of eight players from the respective year participated in Lagori. There was a tie between 4th year and 2nd year team. After this Tug of War matches started. Each year had respective three-four teams respectively. The initial matches took place successfully. Each team from each year showed great power to win every game they were participating.



On this day the Box Cricket League started. From each year two to three teams with the involvement of girls and boys participated in the event. There were knock out matches. So if a team loses then that team is out for the tournament. Each team gave impactful performances in their respective matches. Third year's two teams, one team each from Fourth year and First year advanced for the Semi-finals of Box Cricket.

On the final day the matches of Chess as well as the remaining matches of Tug of War and Box Cricket took place. In the game of chess there was complete dominance of Second year EXTC students. No player from any year had a move to loss a student from second year. After this the box cricket semi final took place in which there was a third year domination. The final took place between two teams of third year. The final event Tug of War took place in which there was a final between a team of second year and first year. There was no move against team of 2nd year and as a result they won Tug of War. After this the winner of Shaurya Trophy was to be declare. **With 39 points Second Year EXTC was declared winner while Third year was runner up with 34 points.**





# CHAMPIONS



CHAMPIONS ARE MADE FROM SOMETHING  
THEY HAVE DEEP INSIDE OF THEM,  
**A DESIRE,  
A DREAM,  
A VISION .**





# AI ML WORKSHOP

**BY PRAVIN AMBEKAR SIR**



A workshop on Introduction to Artificial Intelligence and Machine Learning was organized under ETAS on 19th April 2022 at 1 PM in ENTC Department.

The speaker for the workshop was Pravin Ambekar Sir. Pravin Sir has experience in conducting Training workshops and FDPs & he has also executed various projects for Defense and MNCs. He is currently working for C-DSP ( Amb's C-DSP ), Ambekar Associates ( From 2003 –till Date).

Pravin Sir guided students about the domain-specific projects that are sponsored by his own company and how students can take advantage of doing that projects. Sir also gave brief information about domains like Artificial Intelligence and Machine learning and explained how students can excel in careers and get placed in core companies by enhancing knowledge in these domains.

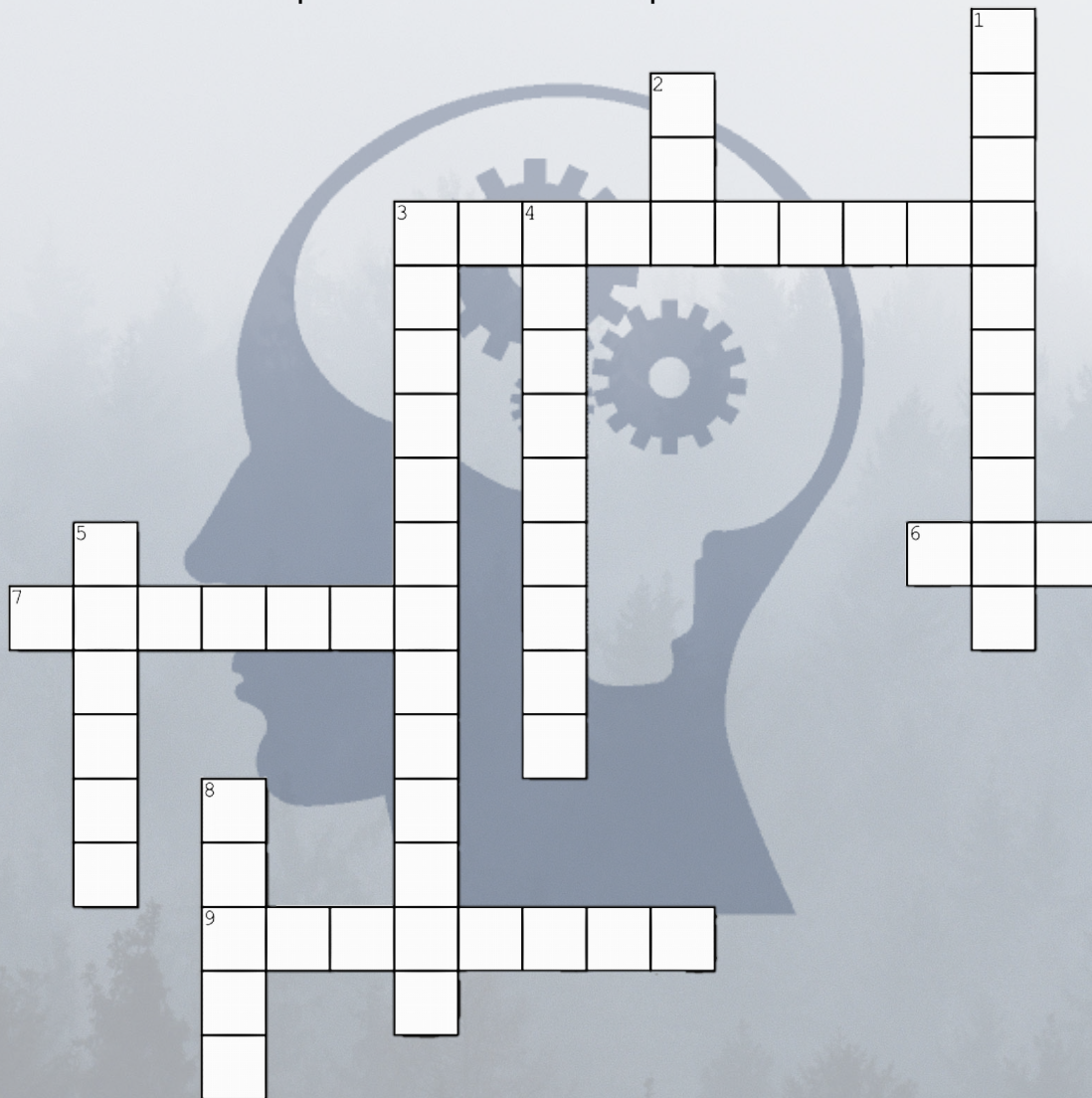
Students from the 3rd and Final Year attended the 1-hour workshop. The entire program was conducted under the guidance of ETAS faculty In-charge Prof. Radhika Harne Ma'am, Gaurang Deshpande (Overall Convenor), Govind Mundada(Final Year Convenor), Prajwal Sawle (Treasurer), and Sarthak Khandagale (Third-year Convenor).

Glimpses from the workshop were captured by Radhika Wagh



# ETAS TECHNICAL CROSSWORD

Complete the crossword puzzle below



## Across

- 3. ONE OF THE WIDELY USED PROCESSOR IN SMARTPHONES
- 6. LOGICAL GATE WHICH CAN INVERT INPUT/OUTPUT
- 7. BRANCH OF ALGEBRA DEALING WITH ELECTRONICS
- 9. BRANCH OF ELECTRONICS DEALING THINGS AT ATOMIC LEVEL

## Down

- 1. ACTIVE COMPONENT IN LC TRANSISTOR OSCILLATOR
- 2. WHEN ONE OF THE INPUT IS LOW OUTPUT IS LOW: LOGICAL GATE
- 3. SUBSTANCE SHOWING PROPERTIES OF BOTH CONDUCTORS AND INSULATORS
- 4. DEVICE USED TO INCREASE MAGNITUDE OF SIGNAL
- 5. PROCESS OF ADDING IMPURITIES IN SEMICONDUCTORS
- 8. UNIT OF INDUCTANCE



# Magazine Committee



1. Gaurang Deshpande (Convenor)
2. Sarthak Khandagale (Convenor 3rd Year)
3. Prathamesh Bhonkhade
4. Radhika Bakare
5. Abhishek Patwardhan
6. Pranav Thakare



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ETAS-issue-1