

GOVERNMENT COLLEGE OF ENGINEERING, AMRAVATI

INNOVENGERS

2019 - 20

Towards Tomorrow ...



Mind Mirage

Phoenix

Innovation idge

Arts Aesthetica

प३वाज

अग्नलपंशव





VISION

Towards Global Technological Excellence

MISSION

- **Creating Human resource of global competence**
- **Providing excellent academic and research environment**
- **Striving For development through technology transfer**
- **Inculcating the attitude of entrepreneurship**



FROM PRINCIPAL DESK

It's inspiring to see the students' contributions to this publication. This institution's success has significantly improved in recent years. I am sure that readers of this magazine will notice the significant improvements that are occurring at this institution. The publication sheds light on the institution's expansion in a variety of directions. The college has helped many students to discover their latent strengths by assisting them in developing their innate abilities. This year due to the global pandemic and the disruption that has caused to the world, we were implied to go for an e-version of our magazine. I am indeed delighted to see that our staff and students have done an excellent job to transform the entire magazine into a digital format. The student's overall development and improvement have always been ensured by highly skilled and committed staff and an enthusiastic student community. Other notable achievements of this publication include student events, innovation initiatives carried out with the aid of others, and so on. I present this magazine to you all as a testament to the dedication to academic excellence and the overall growth of our good students. Wishing the students all the best of luck in their future endeavours with a hope of a healthy and pandemic-free world.

- Dr R.P.Borkar
Principal
Govt. College of Engineering
Amravati

Staff Incharges



Prof. S.A. Lohi



Dr. H.V. Patile



Prof. P.P. Shelke



Prof. S.P. Bijwe



Dr.. S. S. Thakare

It is my earnest delight to welcome you into our college magazine, the online magazine that is an exemplary creation by our bright and dedicated students. This is our first edition of the e-magazine, which we normally publish in a printed format. Due to the global pandemic, we faced difficulties in coming out with our magazine. But, with the sheer dedication and zeal of our magazine team, we converted our print magazine to e-magazine and could still maintain the charm of our creative efforts. I thank our Principal Sir, all Deans, Heads of Departments, faculty members, staff incharges, student incharges and contributing students for their immense support and guidance for this emagazine. I wish the world to soon come out of this difficult situation of pandemic and we all are healthy and happy for all the times to come.

Thanks.

- Prof. S.A. Lohi
Staff Incharge Innovengers

Editorial



Mr. Tushar Pathak

विज्ञानाच्या आधुनिक काळात वाचन व लिखाण यात खूप तफावत जाणवते. याला कारण म्हणजे डिजिटल क्रांती. आजच्या काळातील मनुष्य (खासकरून विद्यार्थी) शाळा व कॉलेजच्या अभ्यासक्रमाच्या व्यतिरिक्त नवीन काही करण्यासाठी वेळच काढू शकत नाही. दैनंदिन जीवनातील त्याचा वेळ हा अभ्यासक्रम पूर्ण करण्यात आणि मोबाईल चा अतिवापर करण्यात कसा जातो हे त्याचं त्यालाही कळत नाही. म्हणून दुर्दैवाने असेही म्हणणे गौण ठरणार नाही की आजची पिढी स्वतःचा असा विचार करू शकत नाही कारण विचार करण्यासाठी सुद्धा वेळ त्याच्याकडे नाहीये. आपण स्वतःला इतकं बिझी करून घेतलय की नवीन कल्पना, विचार यांकडे लक्षच देऊ शकत नाही. विचारांची देवाणघेवाण, त्यांचं आकलन आणि त्यातून मिळणारं ज्ञान कुठेतरी आपणच हरवून बसलोय. पूर्वीचे लोक अपार ज्ञानाचा भांडार का म्हणवतात कारण त्यांना वाचनाचं, विचारांचं महत्त्व केव्हाच कळाले आहे. त्यांच्यात ती एक उत्सुकता होती नवीन पुस्तक वाचण्याची, नवीन पुस्तकांचा गंद/वास म्हणजे एक नशा होती. आजकाल ती नशा नवीन मोबाईलचा बॉक्स उघडल्यावर येते. विज्ञानाची उत्क्रांती व तांत्रिक प्रगती ही आपल्यासाठी चांगलीच आहे पण आपली गुलाम म्हणून.

पण आजची पिढी त्यांची गुलाम बनलीय. त्या कविता... ते विचार... ते लेख... त्या आपापसातील सकस चर्चा यांची मजा आजची पिढी नाही अनुभवू शकत, कारण विज्ञानाच्या प्रगतीमुळे जग जवळ आलंय परंतु माणसे दुरावली गेली. या मॅगझिन द्वारे आम्ही आपल्या महाविद्यालयातील विद्यार्थ्यांमध्ये तो उत्साह, ती प्रेरणा, निर्माण करण्याचा प्रयत्न केला आहे. विचारांच्या पलीकडे जाऊन उत्तमोत्तम साकारण्याची कल्पना लक्षात घेऊन हे मॅगझिन तयार करण्यात आले आहे. चला तर मग, आपल्यातील बौद्धिक सूर्याला वंदन करून विचारक्षमतेच्या पैलतिरी जाऊन सर्वांगीण विकास साधूया.

सहकार्याबद्दल धन्यवाद!

-तुषार पाठक

तृतीय वर्ष उपकरणीकरण अभियांत्रिकी

Magazine Secretary 2019-20

MIND MIRAGE

The English Section of INNOVENGERS 2019-20

The term MIND MIRAGE characterizes the ability of the human brain to create an aura filled with illusions & fantasies which makes us feel like a protagonist in a fictional fantasy world. Unfortunately, we live in a reality we sometimes crave to escape. And what's a better way to escape than falling deep into our mesmerizing minds and pouring it all out on paper, giving it an existence in reality too?

We wanted this section to be a platform for students to find their voice, and while doing so we also ended up finding the relevance of words and the importance of teamwork. Fortunately for us, our little Community of Engineers is filled with maestros who can not only pen their thoughts but does so in a way that moves and inspires you to the core.

Team Mind Mirage is grateful for the support of all our future authors and poets who shared with us their invaluable essays and poems. Mind Mirage is a glimpse into the brilliant young minds of our own institution who take refuge in the magnificence of Literature and share a fondness for it. We hope you reminisce about the college life which we all so desperately want to relive while exploring this section.

Have a blissful reading! Cheers!



SAKSHI MOHOD
EDITOR



RADHIKA BAKRE
CO - EDITOR

MIND... IMAGE...



Pooja.
11-10-19



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'The Shattered Puppet'

Frantic to be vulnerable,
she's survived 100% of the worst days
Bravest thing she ever did was....
to stay alive being the perfect puppet

Now she wants to die;
Desiring to let it all out in uproar
She doesn't want to kill herself....
But rejects to be a puppet anymore

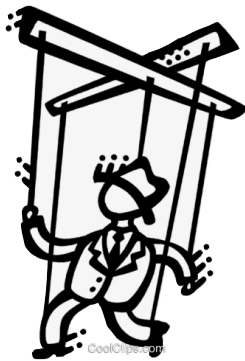
Ignorant to all the strings
of distinguishing slurs,
Pain has shaped her into a warrior

Realizing that cruelty springs up from weakness
Just like her thoughts.....
Life rolled on in fleetness

She may be broken for a while.....
For a second her heart dies
Even though she's been through hell....
She's craving to be the puppeteer of her own strengths

Her damaged petals make her more beautiful
than all the other flowers

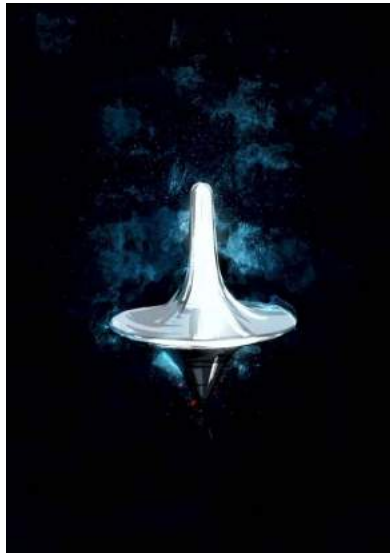
You didn't break her darling.....
You don't own that kind of power



-- Pallavi Bherde
(II Year IT)

'IS THE DREAM A REALITY OR IS THE REALITY A DREAM??'

Have you ever felt like waking up from a dream to see its continuation? This idea disturbs Christopher Nolan ever since he was 16. Already in the future, as he developed this idea in his head, he was visited by another captivating feeling. That what if it were possible to study and manage the place of dreams? That's what the concept of the film is!! It's said that Christopher Nolan spent ten years writing his screenplay for "Inception". He took a similar approach to write a movie about dreams as he did to writing Memento, a movie about memory.



Maybe this is all, but a dream that's the thought on everyone's mind after watching this Sci-fi Thriller. I was completely amazed after watching this film. Amazing, emotional, thought-provoking, deep, intelligent, detailed, clever are just a small selection of the words you could describe this masterpiece. I saw Memento very recently, something that turned out to be a great miss, I saw it again, just to make a couple of things straight and I have done the same with Inception!!!

It took me multiple viewing after the first one to truly appreciate every detail because a lot is going on in the film!! The first time you watch it, it is very confusing. The second time you are totally immersed in the film and have been sucked from reality into this film!! The levels of intricacy to make an epic film like this is beyond comprehension.

Christopher Nolan keeps improving himself, with even more complex and multilayer script like this, and I thought Memento was hard to reach by most of the viewers, but no Inception is on another level which keeps u mesmerized and captivated by the genius, that's hidden behind it. And not just directors and screenwriters but with acting and sound and effects and editing as well. When you have a cast like this I mean Leonardo DiCaprio (a personal favourite), Joseph Gordon-Lewitt, Tom Hardy, Michael Caine the movie just keeps going flawlessly!!

With 148 minutes running time, you would expect a lot to take place, but what you wouldn't expect is the pace of all?? I did not think at one time in the film about how long was left. I was simply blown away by the depth in every single part of the film!!!

The cinematography of the film is amazing that immerses your viewing experience along with the great scores running in the background which really defines the tone throughout the film. The one thing I really liked about this movie is its stunning visuals and clever use of practical effects. Now I know why this film got the Oscar or Academy Award for Best Sound Mixing & Sound Editing and Academy Award for Best Cinematography & Best Visual Effects!!

Mindbending reality combined with stunning visuals and brilliant storytelling really make it one of the BEST FILMS ever made and I will highly recommend you give it a watch because it's worth watching!!!

-Prathamesh Bhonkhade
I Year EXTC

'UNSAID WORD'



A voice may I add for those left unspoken.

Once a girl who seemed to be nice and kind was full of hopes.
Her dreams were strong though never bothered about folks.

Few days past she seemed to be someone else.
Her soothing voice was no more different than broken bells.
Whatsoever had happened drastically altered her.

No longer she stood firm but her vision too got blur.
More days passed and situations got worse, likely as I said.
Far worse happened to which she ended up dead.

It's that what she could never tell to this world.

I choose to narrate her.

Here's what she may have wanted to tell.

Let's begin, where it all ended. Was it for good? I don't know.

It's never had been so easy to the world I show.

Tears I kept swiping but still, they came out.

Was it agony or the phase I lost is still a doubt.

Still searching my answers. I lost my way back.

I begged for relief and became a maniac.

Sometimes I thought death may bring me peace, but also to it I was failing.

Awaiting for the end I never stopped wailing.

Dreams never stopped haunting me. Nightmares must be the appropriate name.

Failure was definitely the fear, also the situations I ought to blame.

Nobody I had but a lady long apart who kept praying for me.

How more I could be miserable is all I wanted to see.

Couldn't handle myself seeing happiness drifting apart.

Brag your stuff and just run away said my heart.

The darkness I had with no hope and faiths.

Alone and afraid inside with no worth as the world says.

Success never could give me what I always heard.

With nothing I possess I say goodbye, but with some left unsaid word.

- Siddhant Chinchkhede
(II Year Mechanical)

'GLIMPSE TO THE POLITICAL CASCADE OF SERIOUS HUMOUR'

26th November 2008, the black day in Indian history when hundreds of people died in a terrorist attack in Mumbai, a day no Indian can ever forget!!! That time there were also the same political parties, same kind of blame - game but thankfully credit of arresting Kasab and killing other terrorists were given to our police and armed forces and not to any political party.

But today it's a different scenario. Today on the same date Maharashtra is suffering from another terrorist attack, attack by our internal unarmed terrorists. Terrorists!! Oh, how I can be so rude to our dear politicians, so-called great leaders.....!!!

Exactly 6 years back in 2013, a time when our youth, teenagers started taking a keen interest in politics because a face arose which shook the whole political roots of Indian politics. People firmly believed that maybe now the status of our country will change from "developing" to a "developed" country.

That was the time when I started reading newspapers, watching the news and listening to those 'small' political 'word wars'. But as time passed by, I actually understood the real meaning of Politics and started losing interest in it. The level of Indian politics has degraded at such pace that it really requires some kind of magic to regain a position where a common man can at least decide whom to vote for and whom to choose as their 'leader'!!!

The person whom I blamed so much politically, personally by every means till yesterday, today is my best friend!!! Wow so nice!!! The situation where everyone is just struggling to acquire that "THRONE" and none of them is even thinking for the betterment of its subjects, how can they even expect votes from us??? #Votes for manufacturing their notes.!

This time Maharashtra witnessed a very dreadful version of elections, its result and the terrific decisions by 'their leader'. I voted for the first time in 2019 Loksabha election and later in Vidhansabha that also with great enthusiasm, but now I really feel that none of them is really worth of our precious votes!!!.

What can 'I' do? is the biggest question.

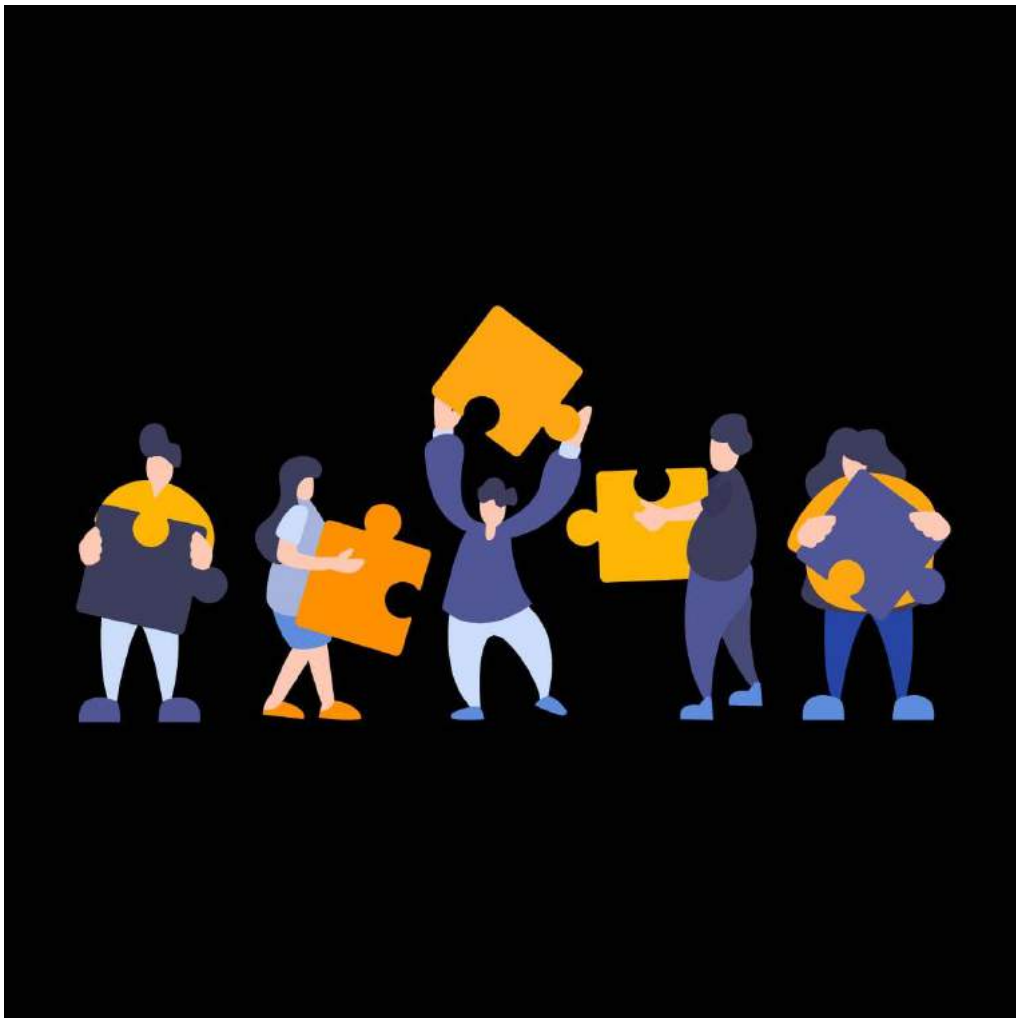
- I can make humorous and best memes and share them
 - I can teach political lessons, No!!! wait, a whole political novel to my friends and family!
 - I can hail a lot about the ruling party or either I can oppose a particular political party that also for other 'good' parties...
 - I can criticize everyone, literally everyone whoever is involved in this process!!!
- Or the last and the best option is I can remain silent of whatever shit is going around me.

Of course, it's not the first time, India has always witnessed this kind of situations in every phase of its political transition, be it any state.!!! I don't think this will ever change but I really wish that a magical fairy tale character or any mythological char-

acter should come and start a new era where everyone can at least live in harmony and peace. But alas!!!! This happens only in Books, serials or movies. No one is gonna help us except 'US'.- who owns the real power!!!

It's so easy to say 'BE THE CHANGE' but toughest to implement. The irony is that I can also just write something or say something but can I really do something for bringing the CHANGE??? (P.S:- Here 'I' means every Indian)

-Shivani Udgirkar
(III Year CSE)



'Where are you?'

Tired and depressed I came to the home, falling on my couch I went to Rome. Dreaming of the luxury I want to have, coming back to reality with a snap.

Happiness happiness why do you screw?
Happiness happiness where are you?

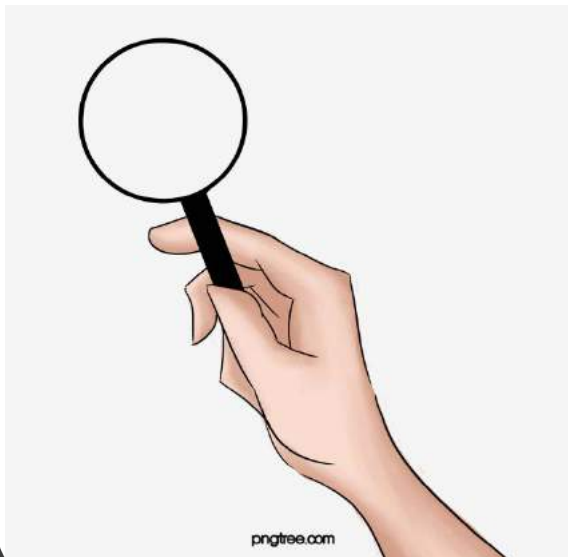
Sitting on the office I stared the fan,
Telling myself that I am a stupid man. Restless and stressed I gazed through the window,
Discovering my boss with his gold plated Limo.
Happiness happiness give me some clue,
Happiness happiness where are you?

Sipping my decaf in a coffee house, I spotted my EX with her spouse.
It broke my heart and I ran to my flat, Filled my shoe in the dung of a cat.
Happiness happiness see my shoe,
Happiness happiness where are you?

Sobbing in my room I cried alone,
Listening to 70's 'turn to stone' Realizing the meaningless and empty life, Those deep wounds of a sharpened knife. Happiness happiness come with your crew,
Happiness happiness where are you?

Lifted my belief from happiness,
I don't give a thought much or even less.
Sitting on a gardens bench, I saw a baby's smile,
It took me in heaven, it helped me reconcile.

Happiness happiness where you are?
Finally found you when I stopped my car.
-Mayur Rajesh Madhekar
(III Year IT)



' WE ARE SPOILED LITTLE BRATS'

Our generation seems a bit unhappy, have you noticed? On paper things are pretty good, why is our mental health so poor then? I don't have all the answers but I can certainly think of a few reasons for why this might be. For one, there's nothing to get around it, we are spoiled little brats!!!

We have grown up in the best time in the history of humanity, we have a standard of living unmatched in human history and because of that we have more time than anyone else in the history of mankind to just sit around and think about things and let them fester!! We're bored and it's embarrassing. We have a problem with everything!! We have problems with the government, we have problems with corporations, we have problems with our neighbours. We've got a problem with the way everyone else is doing things and we're certain that everything would be great if it were all done the way that we think it should be done.

But, the only person we have control over is (shocker!) ourself and our lives are going to be much much happier if we live every single day not expecting other people to behave how we want them to. Instead of assuming you've owed things in life be thankful when good things come your way!!!

We don't know how to wait for things. There's this concept out there called "delayed gratification", it's a lost art. But in short, it's the act of wanting something but not immediately getting it. It's realizing that you would be better off if you held off.

ie. ME - something "now" = ME + something BETTER "later"

Like, if you ate momos every day, that's a bad idea. The appeal of the delicious momos is that you don't eat momos very often.

But, this isn't all about the money, this is about our mindset when it comes to anything!! I'll give you a great example. When a movie is going to come out and you're very very excited about it, what do you do? Do you just patiently wait for the release day or are you looking for every shred of information you can find online about this upcoming movie? Articles and videos, interviews, trailers (and, spoilers?). Gee, just see the movie when it comes out. There are plenty of other things to occupy your brain between now and then.

This one's not super exciting, but it's true - we don't eat well. Hopefully, we can all just freely agree that eating processed food frequently is probably not great for your mental health. Your brain needs proper nutrition to keep it working properly. If you eat nothing but real food for one week, all your problems will go away! (Yay!!) No, that won't happen, but you will feel different, in a good way. But, as I'm not a medical professional



here's a QUICK WARNING:- *Please, consult with your doctor before switching to a healthy food diet. I will not be liable for the extra days on this earth that you'll gain from common sense!!!*

I guess, there's a general lack of purpose I sense that people my age have. You have to have something you're working towards. A goal or an idea, just something that gets you excited to wake up in the morning. Maybe that's a task you love or the hobby you enjoy.

Having a goal puts you in a better brain space and it motivates you to make better choices. You've only got one brain and you've got to take care of it!!

Peace out!

-Ketki Kaduskar
(II Year EXTC)

'Anybody found it?'

It flew high in the clouds, left no inkling.

Anybody found it?

Someone saw it taking rounds and rounds as if it had no bounds.

I see some blood in here as if it had spilt out of pain.

It may need help. It is about to rain.

We have predators here, maybe some scavengers too.

Anybody found it?



We really need good intent here.

My dear friend, please tell me if you saw it.

It is getting dark in here and showering too.

Call out my name loud when you get a clue.

Till then I will search for it, bye.

Hey there!!

Did you find it?

- Uday Uikey
(III Year CS)

'A glimpse into "a life less ordinary" '



“The soldier is the army. No army is better than its soldier. The soldier is also a citizen. In fact, the highest obligation and privilege of citizenship is that of bearing arms for one's country”

-George S Patton

Indian army has 13 lakh Troops under its ranks and about 36000 officers and is worlds 3rd most powerful army in the world. Our army has continuously proved its mettle by winning 4 wars against.

Pakistan and has also actively participated in UN peacekeeping missions in the world. The price for those victories was paid by those who fought valiantly, without any thought of their personal safety, with cold courage, victories are to those who laid themselves down for the sake of tricolour to stay high, they returned to their home wrapped in tricolour & became immortal, dying a heroes

death. This is how they have earned the status and position of respect in society. All of us have

our own opinion about what is 'social status'. However, it is undisputed that the status of a "warrior" has stood the test of time by their precious sacrifices. history and society both have held soldier in esteem & offered him unique status I society by joining the army, one becomes a member of the exclusive elite brotherhood. Life at forces is not just fighting at the borders, as it is thought by many, the army has got 42 different arms which are divided into combat, combat support and logistics branch.

Combat arms are those which takes part in the fights, skirmishes, wars leading from the front and facing the enemies first hand these are the brave hearts which people hear stories about. They consist of the infantry, armoured corps, mechanized infantry.

Combat support arms are those which do not directly participate into combat with the enemy on the ground but helps the combat arms gaining superior arms over like artillery which consists of

howitzers guns and field guns that help in shelling through the battle also the missile of Indian army.

Those are used by artillery to support combat arms. Also, signals corps ensures the com-

munication is established between the battlefield and the command for better knowing the conditions of war and planning tactics. Engineers is also a corps in the army which helps army for construction of bridges in inhospitable terrains, maintenance of the tanks and other weapons, securing the way for our troops by clearing a minefield.

All of this is the variety of work one can do joining the army.....

In Army, the qualities of leadership, brotherhood, guts to face all odds, the feeling for all for one and one for all is developed these helps one in each and every aspect of life, such as the prestige of joining the forces.

What does it require to be one of them?

As field marshal Sam Manekshaw answers it

“The primary and cardinal attribute for leadership is professional knowledge and professional competence. Professional knowledge has to be acquired hard way. it is continuous study, that you will never acquire in today's fast-moving world that you are living in, you have to keep your profession whatever you are”

Think big and aim high you will achieve what you aim, hard work will get you where you wish to go and remember there is a God who keeps account of all your doings and activities some of us also

believe in luck but remember luck favours those who work hard and have faith in god.

Make the best of

the 24 hours you have got for the time will not stretch nor the lost time ever come back to you.

A note for all defence aspirants preparing for SSB interviews, one message I would like to give you to all is

Educate yourself

When a question about a certain topic pops up, google it, watch movies, documentaries. When something sparks your interest, read about it.

Read read read

Study, learn, stimulate your brain, don't just rely on the school system, educate the beautiful mind of yours

JAI HIND!!!!!!

- Rutam Shrikant Pimlapure
(I Year Mechanical)

'The day you were gone'

The day you'll go I'll start to feel how blessed I was,
My bare head had the cool shadow of your heart and that pause.

All of your things were never mine,
But your touch made me feel that I must shine.
Never-ending talks would have defined so much in between,
We forgot that the world was saying that we're mean.

Your smile graced up my world so bright,
The sun faded and the stars give up their light.
Those after coffee things didn't make sense,
Still whenever I tried to remember they made me tense.
All those hugs and never-ending smiles,
Behind my tears are lying all those lies.

When you said never to give up,
I always wanted to dance and that you pick me up.

Then you clicked for me that day in a hurry,
After seeing that I danced In merry.

Ball n bat irritated me a lot,
But you taught me to put it in a pot.
All the world thinks black is freeing,
But we did our best in yellow and green.

Your shades made me go mad around,

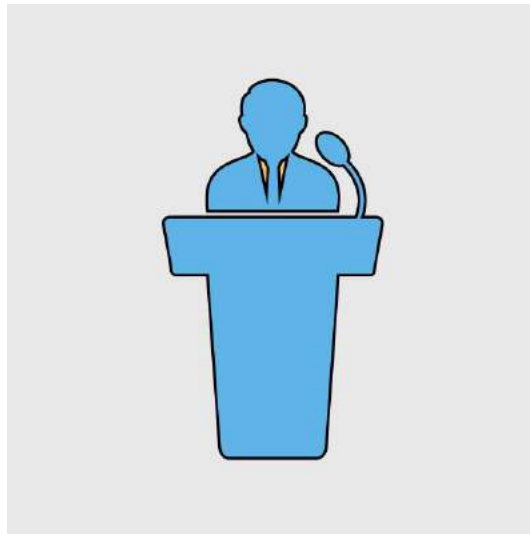
I hate when girls are all in your surround.

I know how much you cared for me,
When you touch my heart dances in glee.
Your splendid touch makes me feel holy,
All I know when I am with you I am jolly.

-Susmita Khadse
(III Year CSE)



'A Different Perspective'



Let's talk about a day that needs no introduction, 'Women's Day' celebrated on the 8th of March every year. To know how it is celebrated in India just google 'Women's day celebration in India', you'll get tons of news, photos of people celebrating the day, but if you do the same for 'Men's day' then you'll hardly see any photos of people celebrating the International men's day which is on 19th November.

Media covers many events on the Women's day, every year Maharashtra Times organizes bike rally on women's day, but the same media will ignore men's day. They will treat it just like an ordinary day. Isn't it not gender discrimination? I know it's good to arrange events for society, but remember that society comprises women and men. Society should treat both of them equally.

Men don't want any kind of attention; They just want respect from society and they are working hard to 'Earn it'. When anyone says, 'respect women'. I've one question: How can we respect someone by their gender? We should respect the person, not the gender. We should respect the person who worked hard for any cause irrespective of gender. Don't blame a gender by the deeds by one person. A woman can make fun of a man, abuse him, still the people will say that she has a strong character, if the same is done by a man then the same people will say that he's disrespecting her, he doesn't know how to behave with a woman. If you are saying men are serial killers (Chandrakant Jha), then you don't know about Seema Gavit and Renuka Shinde who kidnapped and killed many children. Are people saying all women are the same, all are serial killers? 'A big NO' we are not saying anything like that, then why blame a whole gender by the act by a few? You can't credit/blame the whole community by the deeds by few, just like you can't say the exam

was tough by solving the first question only.

Why do people say to a crying baby boy 'Don't cry, you are a man'? Is it illegal for a man to cry? No! Then why don't we feel normal when we see men crying in public? A person may cry while expressing his feelings to someone, what's wrong in that? Every man is not strong just like every woman is not weak. Think over it.

"Blue for boys, Pink for girls.

Emotions for women, Strength for men.

These are a few stereotypes that shouldn't exist." (Source: www.jaagore.com
<<http://www.jaagore.com>>)

We are living in the 21st-century women and men are standing on the same stair on the staircase of equality, success, fame. I know in few areas women are behind men, but soon or later they will cover the difference and will show that world that 'We are not behind.'

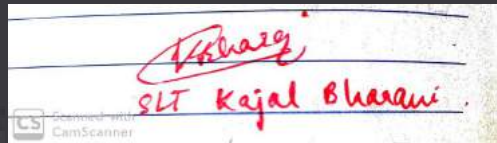
Written By a person with unbiased and not so normal views.

-Aradhya Tare
(III Year Electrical)



INTERVIEW - 1

S.Lt. Kajal Bharani
Naval Officer
Ex- Gcoean (2018)



Que 1) What is your current designation in the Indian Navy?

Ans: My current designation in the Indian Navy is sub-lieutenant in logistics cadre.

Que 2) How did you prepare for the SSB examination while working at the same time?

Ans: After completing my B tech, I was placed in an IT services company named 'Cybage'. Avoiding the coaching, I kept my preparation fully based on my readings and thus learning through books. According to me, rather than preferring multiple books for an exam one must try to grasp as much as possible from the selected study material and should try to be constant with that. For my preparation I thoroughly prepared from a book named 'Complete Guide to SSB' by Dr N. K. Natrajan. As SSB is all about self-analysis, this book gives you a proper way to go through that. I recommend that while preparing for SSB one must surely go through this book. I also referred to some youtube channels like SSB Crack and Defence mania during my preparations.

Que: 3) What was the turning point in your journey that made you choose this career path?

Ans: I joined the IT company in July 2018 and the first SSB interview was in Sept 2018, so I went to the 1st SSB unprepared. There I enjoyed the group discussion tasks and various tasks which made me realise who I am. At that point, I realised that my job in navy is going to be very interesting, I mean it is not going to be a job where I have to just sit and work for hours and hours in front of the computer. I realised I am going to enjoy exploring new places, and due to this, I chose this as a career option.

Que: 4) How was your training experience and what motivated you to keep going?

Ans: The most important part of my training was that I learnt to be disciplined with my all works. It made me explore my inner strengths and I learnt to make my commitment stronger for moulding myself in the aura around me. I had so strong competitors there but I never gave up on any of the tasks by considering myself inferior. I completed the running task of 8 km without stopping and also fought with my hydrophobia. My parents motivated me to do the training and reach my goal in a very positive way. Being disciplined and completing my tasks, having control over myself, being loyal to my commitments helped me a lot during the training period.

Que: 5)What are your thoughts on the heinous crimes that women are facing?

Ans: First of all, what lacks in society is sex education. What society thinks is 'Girls are made only for that particular thing and they are here for its fulfilment only'. Clearing of the rudimentary thoughts of people is so important. Apart from that, laws in our country regarding such cases are so poor and its implementation is also so time taking. Laws should get improvised in such a way that the criminals should get a touch of fear in their hearts before even thinking of committing such crimes. Girls also need to make themselves capable of fighting for themselves in the circumstances they fall into. They must learn self-defence and be confident instead of being frightened and coward.

Que: 6) How did your parents and society react to your achievements?

Ans: My parents have always been my biggest backbone and they guided me in the direction of my dreams and achieving them in my life. I never focused on what society said and I was concerned with the decisions of my parents. I faced oppositions as well but my parents were happy so I was satisfied enough to make them proud of me. They never focused on the pay- scale related to this Job. They just felt proud that I got such a great post in Navy. And this made me as well as my parents happy enough.

Que: 7)What is your message to all the defence aspirants of our college?

Ans: For the defence aspirants, I would like to say that find a reason before heading towards choosing such a career. You should not go with the flow always. And nor should you choose it just because of a lump sum pay- scale concerned with this sector. If your Moto is for contributing at least 1% of 100 for the betterment of our nation then you should go for it. But for that, you also need to analyse yourself and your abilities regarding different aspects related to choosing this field. Your only aim should be serving this country in a whole- sole manner.



परवाज़

The Hindi section of Innovengers 2019- 20

साहित्य, शायरी, लेख, ईत्यादी हमारे जीवन में बोहोत महत्त्व रखते हैं, क्युंकी ये सब हमारे जीवन की कहाणी को ब्यान करते हैं | केवल एक पेन और एक कागज लेकर एक व्यक्ती अपने सारे दुःख, दर्द, हसी, खुशी के सारे लम्हे कैद कर सकता है |

हृदि को तो सारा जहान जाणता है, आये ऐसे हम मातृभाषा से लेकर मतिरभाषा बनाये | इसी हृदि भाषा को सन्मानति करते हुये हम पेश करते हैं इस वर्ष की वार्षिक पत्रिका का हृदि वभाग “परवाज़” | परवाज का अर्थ होता है “उडान” |

अपने हृदि कवयिणी , शायरो एव लेखको की प्रतभिा एव कौशल को उडान देने के लयि हृदि वभाग प्रस्तुत करता है ‘परवाज़’ | हमारे सभी हृदि प्रेमी दोस्तों के कुछ वचिर इसमे शामिल कयि गये हैं | आशा करते हैं ये सभी के दिल को छु जाएगी |

अपने हूनर पर इतना भरोसा तो रख ये इंसान...
हमे अपना रस्ता खुद बनाना है...
सडीयां उनको मुबारक हो, जीनको छत पर जाना है...
हमे तो आसमान छुना है
और ‘परवाज़’ पंखों की मोहताज नहीं |



SUMAIYA SHEIKH
EDITOR



NAMRATA JADHAO
CO- EDITOR

परवाज़

मानव जाति की सेवा में
अंतरिक्ष प्रौद्योगिकी



अनुक्रमणिका

१.यल्लार

२.राखी...!!!

३.लफ़्ज़ की तलाश

४.कौन रोता है....

५.मंजील...

६.मुस्कान

७.राह तू...साझी मै...

८.का नाम ज़िंदगी है...।

९.कितना अच्छा होता....”

१०.चुनौतियां

११.मुलाकात...!!!

परवाज

यल्गार

मौत है चुनौती, सामना मेरा जीवन से है
करलु ये पार, कामना मेरी ये मनसे है
हार से मैं क्यु डरू, फतेह का मैं यार हूँ
यल्गार बेमीसाल हूँ।

हिल रहा है आसमा, उड़ाने है ये हिल रही
गुलाब है मुरझाये, काटीया है ये खिल रही
गम नहीं गर तोड़ा, खुशबू सा मैं यार हूँ
यल्गार बेमीसाल हूँ।

लबों की वो बात हूँ, दिल का हूँ आतंक मैं
जनम का हूँ जशन, मौत का हूँ मातम मैं
समुद्रमंथन में जहर पिया, शिव का मैं अवतार हूँ
यल्गार बेमीसाल हूँ।

जल रहा जमाना ये, बुझाना मेरा काम है
झुट के बाजार में, ये सत्य आलीशान है
काटो के बिच, खुशबू का मैं व्यापार हूँ
यल्गार बेमीसाल हूँ।

जित का लालच नहीं, ना हार से है भय मुझे
शौर्य से मुम्कीन नहीं, कायर से है शय मुझे
बेरंग इस जमाने में, रंगीन मैं जहान हूँ
यल्गार बेमीसाल हूँ।

-प्रज्वल सुरेगराव निस्ताने
तृतीय वर्ष, विद्युत अभियांत्रिकी

राखी...!!!



सिर्फ कलाई से नहीं ,दिल से बंध जाती है,
बहन भाई के रिश्ते की डोर कहलाती है,
एक ही दिन के लिए इसे बड़ी एहमियत होती है,
इस राखी नाम के धागे की बड़ी कीमत होती है,

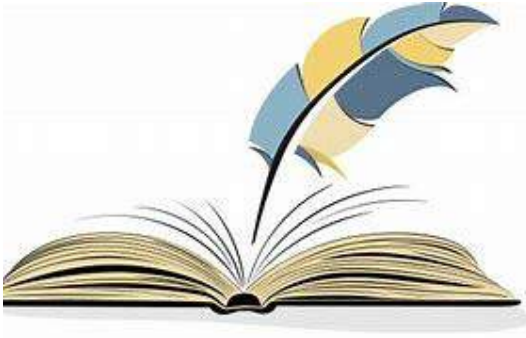
बड़ा पवित्र है ये त्यौहार,
बड़ी सभ्यता दिखाई जाती है,
एक दिन के लिए ही सही,
सारी बहने महफूज घर जाती हैं,

आज खुश रहती है हर लड़की,
मौज मना रहीं होती है,
सालभर कोई न कोई बहन,
चीख - चीखकर रो रही होती है,

आज ही के लिए सब में,
एक भाई जाग जाता है,
सिर्फ आज ही हर मर्द,
लड़की को आदर से देखता है,

काश हर रोज राखी होती,
लड़कियां रोज बेखौफ घर जाती,
हर रिश्ता पवित्रता से बंधा होता,
हर दिन सभ्यता दिखाई देती ।

नम्रता जाधव
तृतीय वर्ष, संगणक अभियांत्रिकी




लफ़्ज़ की तलाश

लफ़्ज़ की तलाश में तू लाश बनके फिर रहा,
सुकून दे अपने जिस्म को तू इतना क्यों भटक रहा ।
जो कल सत्ताधीश थे वो आज भी अधिश है,
वो काम जो भी कर रहे वो नाम के ही काम है ।
धर्म धर्म बोलकर, व्यापार है चल रहा,
कोई सवाल पूछे तो, भक्त है उछल रहा ।
कलयुग के इस युग का राम भी बेहक गया,
खून देख अपने बच्चों का, वो खुद भी है चेहक गया ।
जात पात के प्रकोप का है नहीं विकल्प कोई,
कोई मर रहा यहां तो कोई मर रहा कहीं ।
आवाज़ यहां है दब रही, खोखले लफ़्ज़ है भटक रहे,
हारकर के अपना हक, मुर्दे है लटक रहे ।
लिंगिंग बढ़ता जा रहा, गाय के नाम पे लोग किलर है,
Extreme Rightist are also saying, यार हम भी सेक्युलर है ।
जनता का पैसा पेट में और ये सेठ बनके बैठे है,
नष्ट करके लोकशाही कुर्सी पर ये एठे है ।
फीमेल यहां अनसेफ है और सोच फाइव ट्रिलियन की है,
Recession, Corruption अभी है ज्यूसर साहब, गरीबी अभी मिलियन की है ।
Quality Education नहीं, स्टेच्यू हमारा ताज है,
मीडिया अब नहीं रहा, यहां M O D I A का राज है ।
महंगाई की मार का विकार भी पनपा है,
जीडीपी है घट रहा, परेशान देश की जनता है ।
यहां सत्ता का भोग नहीं उपभोग है चल रहा,
जो देश बदलने आया था वो खुद भी है बदल गया ।
जिनको देश ने यहां था बोहोत कुछ दिया,
चाहतों को उनकी अब नया मुकाम मिल गया ।
लेकिन एक शख्स था वहां, जो देखता यहां वहां,
बौखला गया था वो, ये देश में क्या चल रहा ।
मै नहीं गया यहां, तो ये भूल बढ़ती जाएगी,

तमीज़ की कमीज़ पे और धूल चढ़ती जाएगी ।
मै नौजवान हूं, मै देश का ही प्राण हूं,
जब देश हो यहां महान, तभी तो मै महान हू ।
मतदान मेरा कर्तव्य है, जस्टिस मेरा अधिकार है,
सरकार से संविधान नहीं, संविधान से चलती सरकार है ।
इतिहास मेरे साथ मे, भविष्य मेरे हाथ में,
अब लोकतंत्र बच सकेगा, सिर्फ इन्कलाब में ।

रोहन देशमुख
अनुविद्युत व दूरसंचार विभाग,
अंतिम वर्ष

कौन रोता है....



कौन रोता है, आँसु दिखाने के लिए,
तो झलक जाते है, पलकें पर भारी होने से ।
कौन रोता है, सपनों के टूटने से,
तो आ जाते है, सपनों को बिखरते देखने से ।
कौन रोता है, किसी के याद में,
आँसु भी थम जाते शमशान से लौटने से ।
कौन रोता है, किसी के मुहब्बत में,
आँसु निकल जाते है, उनके खफा होने से ।
कौन रोता है, औरों के लिए यहाँ,
एक माँ -बाँप ही है, जो हर मुश्किल वक्त का सहारा होते हैं ।
हम तो उलझे है उनकी यादों के तराने में,
अब नींद भी खफा है, उनके लिए आँसु बहाने से ।
रिश्ते तो है यहाँ सिर्फ दिखावे के,
पर दर्द में कोई अपना नहीं इस बेगाने का.... ॥

-उर्वशी खंडाईत
तृतीय वर्ष, असैनिक अभियांत्रिकी

मंजील...

दिल के अरमानो को कभी बुझने न देना
हार के आगे अपना सिर झुकने न देना
मंजील में कितने भी काटे क्यु न आये
मुश्कीलो में खुदको कभी तुटने न देना ।
मंजील तो पास ही है तु हिम्मत न खोना
राह पे चलते कदमो को रुकने न देना
काटो के रास्ते भी फूलों में बदल जायेंगे
मंजील को पाने के आग को कभी बुझने न देना ।
संघर्ष करते रहना आशा न करना फल की
किस्मत की लकीरे लिख देंगी सुनहरी सुबह तेरे कल की
कल की आशा मन में कभी जगने न देना
संघर्ष की तलवार को कभी रुकने न देना ।
मंजील में कठिनाईयाँ तो बहुतसी आएंगी
तब आत्मविश्वास की ताकत ही रास्ता बनायेगी
बना लेना कठिनाईयों को अपने जिंदगी का हिस्सा
दुनिया तो क्या मंजील भी खुद कदमो को चुम लेगी ।
पाकर अपने मंजील को संघर्ष को भुल न जाना
संघर्ष ही रहस्य है जीवन का
रहस्यमय संघर्ष को ही अपनी मंजील बना लेना
जीवन भर मंजील की ओर चलते हुए
हमेशा संघर्ष की राह पर कदम बढ़ाना ।

-स्वप्नील राजु पवार
तृतीय वर्ष, यंत्र आभियांतिकी

॥ मुस्कान ॥

क्यू मायूस होता है
आज ... बुझे हुए आग को फिर से जलाते है ,
चलो आज थोड़ा फिर मुस्कुराते है...

वो खोया है कही अंधेरो में,
उस उम्मीद के शेर को फिर से जगाते है,
चलो आज थोड़ा फिर मुस्कुराते है...

टूट रहा है मुश्किल से,
फिर मुश्किलों को उनकी औकात दिखाते है,
चलो आज थोड़ा फिर मुस्कुराते है...

तू मायूस है मंज़िल के रूठ जाने से ,
चल...डूबते हुए हौसले को फिर से बचते है ,
चलो आज थोड़ा फिर मुस्कुराते है.....

- शोएब आशकान
तृतीय वर्ष , अनुविद्युत व दूरसंचार विभाग

राह तू...साझी मै...

मै कागज़ बेरंग सा,
तू रंगरेज अल्फाज़ हैं
मै कश्ती ठहरी सी
तू दरिया में तूफान है

तू सपनों में रंगीनी सी
मै अंधेरी रात हूं
तू बांसुरी मधुर सी
मैं बेसुरा सा काक हूं

दर्पण भी शर्माए
ऐसी खूबसूरती तेरी
अंधेरा भी रोशन हो जाए
बा - खुब रोशनी तेरी

ना ढले खूबसूरती तेरी
सूरज की दुआ है तुझे
चांद भी बेरंग है
देकर रंगीनियां तुझे

ना बिछड़े हम कभी
रब से दुआ करता हूं
दिल - ओ - जान क्या चीज़ है
मेरी सारी खुशियां तेरे नाम करता हूं
गौरव राठोड
तृतीय वर्ष , अनुविद्युत व दूरसंचार विभाग

का नाम ज़िंदगी है...।

थम जाती जो हवायें
सांस न ले पते हम,
हवा के बहते रहने का नाम,
ज़िन्दगी है ...



थम जाए नदी अगर,
पानी को खराब कर देती है काई,
नदी के बहते रहने का नाम ज़िन्दगी है..

थम जाए गर्मी अगर, बरसात कैसे आएगी
पेड़ पौधों की प्यास कैसे बुझाएगी
थम जाये बरसात तो,
सर्दिया कैसे सताएगी
जो थम जाए सर्दिया तो,
धूप ठण्ड कैसे हटाएगी
इन तीन ऋतुओं के चक्र का नाम ज़िन्दगी है

क्या होगा, कैसे होगा की सोच में,
कब तक थमे रहे,
होगा की नहीं जैसे सवालो पर,
कब तक अड़े रहे ,
सवालोंको उठाने का नहीं,
जवाबोंको को ढूँढने का नाम ज़िन्दगी है..

हालातों पर रोना कायरोका का काम है,
वीरो सामान चुनौतियोंसे दो हाथ
करने का नाम, ज़िन्दगी है,

समय अच्छा हो या बुरा,
निकल ही जाता है,
बीतें कल में थम जाने का नहीं,
आने वाले कल की ओर चलने का नाम,
ज़िन्दगी है

:- सार्थक श्रीवास्तव
चतुर्थ वर्ष, यन्त्र अभियांत्रिकी विभाग

कितना अच्छा होता....”

कितना अच्छा होता, अगर जिंदगी पानी की तरह होती,
जिस रंग में हम ढालते उस रंग में ढल जाती ॥
कितना अच्छा होता, अगर जिंदगी फूलों की तरह होती,
खुशबू से फिर अपने हर मन को वह महकाती ॥
कितना अच्छा होता, अगर जिंदगी इन नदीयों जैसी होती,
अपने अस्तित्व से वह सबका जीवन चलाती ॥
कितना अच्छा होता, अगर जिंदगी बारिश के बुंदों की तरह होती,
ना आए तो इंतजार और आए तो खुशियां दे जाती ॥
कितना अच्छा होता अगर ये जिंदगी हमारी मां जैसी होती,
बिन कुछ कहे, वो हमें सबकुछ दिला देती ॥



- श्रुतिका नंदकिशोर हजारे
द्वितीय वर्ष, विद्युत अभियांत्रिकी

चुनौतियां

चुनौतियां दरवाजे पे दस्तक
दे रही है तो इसमें कौन सी बड़ी बात है
खोने के लिए बचा ही क्या है
जिसकी वजह ये जीने की हयात है।

-अनुज टेलखाड़े
द्वितीय वर्ष, अनुविद्युत व दूरसंचार विभाग



मुलाकात...!!!

मिलते है वहा,
जुनून और ताकत के परे,
से जहां मुंह से लफ्ज़ निकले
पर दिल की आवाज हो ,
दिलो में बसे सच्चाई और बातों में सम्मान हो,
नहीं हो द्वेष कोई
बस खुद की पहचान हो,
रहेने के लिए बस एक कमरा
नहीं पूरा आसमान,
अश्रु हो बस खुशियों
के ना कोई परेशान हो ,
चलो मिलते है वहा जहा
हर कोई इंसान हो.....!!!!



-उदय उड्के
तृतीय वर्ष, संगणक अभियांत्रिक



INTERVIEW - 2

MR. BHARAT JADHAV

MARATHI ACTOR

FILMS - JATRA, Khabardar, Pachadle-La, KHO-KHO, ONE ROOM KITCHEN, MUMBAI CHA DABEWALLA, VASTAV.

DRAMA - SAHI RE SAHI, ALL THE BEST, MAHARASHTRACHI LOKADHARA, PUNHA SAHI RE SAHI, SHRIMANT DAMODAR PANT ETC.

प्रश्न १) जेव्हा आपण आपलं करिअर सुरू केलं, त्याकाळी कला क्षेत्रात स्थान निर्माण करणे खूप अवघड होते, त्या परिस्थितीत आपल्याला आपल्या परिवाराचा कसा पाठिंबा मिळाला?

उत्तर - ज्यावेळी मी माझं करिअर सुरू केलं, त्यावेळी फक्त एकच चॅनल होत आणि ते म्हणजे दूरदर्शन. आतातरी खूप चॅनल्स झालेत, त्यामुळे साहजिकच घरच्यांचा विरोध असणारच... त्यावेळी कला क्षेत्र म्हणजे 'लष्कराच्या भाकऱ्या भाजणे', पण मला अस वाटत की कुठल्याही क्षेत्रात जिद्द आणि प्रामाणिकपणा असेल तर तो नेहमीच आपल्याला पुढे नेतो.

प्रश्न २) अभिनेता बनयचं हे स्वप्न लहानपणापासूनच होत का?

उत्तर - खरं सांगायचं तर अगदी लहानपणापासून अस काही नव्हतं. घरच्यांच्या इच्छा असतात की आपल्या मुलाने/मुलीने इंजिनिअर किंवा डॉक्टर व्हावं पण त्या मुलाचा ओक कुठे आहे, त्याला कुठे बर वाटतं त्यावर सर्व अवलंबून आहे. आणि जिथे त्याला अस वाटेल की इथे आपण व्यक्तिगत स्तरावर काहीतरी करू शकतो आणि जेव्हा ही शक्यता निर्माण होते तिथे यश हे असतेच... आपलं कसं होत ना की आपल्याला ती शक्यता दिसते परंतु आपण आळस करतो, नाहीतर कोणाचं तरी ऐकतो आणि थांबतो, यात मला असं वाटते की आपण आपल्या मनाचं ऐकल पाहिजे.

प्रश्न ३) आजच्या युगात पैसा हा माणसापेक्षा जास्त मौल्यवान समजला जातो, तर याबद्दल काय सांगाल?

उत्तर - अरे... हा तर जगाचा नियमच आहे. जिथे साखर तिथे मुंगी, आता त्या मुंगीला कळलं पाहिजे की मी अजून जरा प्रयत्न केलेत तर साखरेपेक्षा अजून काहीतरी मोठं कमावेल. आणि गर्दीत घुसण्यापेक्षा मी एकटं कसं मोठं होईन आणि कश्याप्रकारे लक्ष काबीज करेल यावर भर द्यायला हवा.

प्रश्न ४) चित्रपटात वा नाटकात एखादं पात्र निवडतांना मनात काय विचार असतो?

उत्तर - ज्या गोष्टी मी केल्या त्या मला आवडल्या म्हणून मी केल्यात आणि सुधारणा कधी ठरतात, जेव्हा त्याला यश मिळतं आणि आपला प्रामुख्याने घोळ हा इथेच होत असतो की यशस्वी झालो म्हणजेच सुधारणा झाली अस वाटतं पण माझ्या मते मी जे करेल ते त्याचा आदर्श हा पुढल्या पिढीने घेतला पाहिजे, हेच खरे यश!

प्रश्न ५) नाटक की सिनेमा? आणि का?

उत्तर - नक्कीच नाटक, कारण ते जिवंत स्वरूपात असते आणि हे करायला मूळ हिंमतच लागते. उद्या जर प्रयोग चालू असताना काही घडलं, प्रेक्षक काही बोलले, तर त्यांना खिळवून ठेवण्याची ताकद माझ्यात हवी ना ! सिनेमा मध्ये खूप Cuts & Retakes असतात परंतु खरी हिंमत लागते ते नाटकात.

आपल्याला समोरच्याला खिळवता आलं पाहिजे.

प्रश्न ६) आमचे लाडके भरत दादा आम्हाला वेबसेरीज मध्ये वगैरे कधी पाहायला मिळतील?

उत्तर - मी नुकतीच एक वेबसेरिज करतोय, पण हे सगळं क्षणभंगुर आहे. क्षणिक सुख आणि आनंद देणारे आहे. १-२ वर्षे चालेल पण पुढे काय? चिरंतर लोकांच्या लक्षात राहिल पाहिजे असं काहीतरी करावं, नावासकट, चेहऱ्यासकट... तरच काहीतरी करून उपयोग आहे.

प्रश्न ७) भरत दादा, तुमच्या आयुष्याला कलाटणी देणारा असा कोणता प्रसंग आहे की त्याने तुम्हाला खूप प्रेरित केलं आणि अजूनही तितक्याच जोमाने काम करण्याची इच्छा आहे?

उत्तर - आयुष्यभर एकांकिका स्पर्धा केल्या, आणि जेव्हा त्याच एकांकिकेच व्यावसायिक स्तरावर नाटक बनते आणि हे जेव्हा आपल्याला कळते तेव्हा तो खूप मोठा जीवनाला कलाटणी देणारा क्षण आहे असं मला वाटतं. माझ्या आयुष्यातलं ते “ऑल दी बेस्ट” नावाचं नाटक होत १९९३ साली आणि ते जेव्हा व्यावसायिक रंगभूमीवर आलं तर तो माझ्या आयुष्याला कलाटणी देणारा क्षण आहे असं मला वाटतं. आणि त्यानंतर २००२ साली “सही रे सही” या नाटकाच्या माध्यमातून माझ्या आयुष्याला एक नवीन दिशा मिळाली असं मला वाटते.

प्रश्न ८) आमच्या GCOEA च्या विद्यार्थ्यांना काय मार्गदर्शनपर संदेश द्याल?

उत्तर - मुळात कोणतीही गोष्ट करण्याची जिद्द पाहिजे तुमच्यात, आपल्या लक्ष्याप्रती प्रामाणिकपणा असला पाहिजे, कोणताही अभिनेता असो किंवा मोठी व्यक्ती असो, तो एका रात्रीत कधीच यशस्वी होत नाही तर त्यामागे अपार कष्ट आणि संयम असतो. इच्छाशक्ती आणि मेहनतीच्या जोरावर तो नावारूपाला येतो. मेहनत, इच्छाशक्ती, आणि प्रामाणिकपणा यांची सांगड घातली तर यशस्वी होण्यापासून तुम्हाला कोणीही अडवू शकणार नाही.

खरंच खूप खूप धन्यवाद भरत दादा... आपल्याशी संवाद साधून खरंच मनापासून आनंद झाला. आपल्या पुढील आयुष्यासाठी आणि सुवर्ण पर्वासाठी खूप खूप शुभेच्छा!



अग्निपंख

ध्येय ठेवूया मोठे जणु,
रंगवावेत स्वप्नाचे इंद्रधनु,
विचारांना आपल्या देऊया पंख,
झेप घेऊ आपण उंच नभी,
पसरवुन आपल्या इच्छाशक्तीचे अग्निपंख...!!
पसरवुन आपल्या इच्छाशक्तीचे अग्निपंख...!!

खरंतर आपल्या प्रत्येकामध्ये एक कवी दडलेला असतो, एक लेखक असतो पण फक्त गरज असते ती त्याला शोधण्याची, त्या विचारांना लेखणीची जोड देण्याची! आणि हाच हेतू ठेऊन अश्याच काही कलागुणांचा शोध घेऊन त्या व्यक्तीला प्रोत्साहित करण्यासाठी मराठी विभाग प्रस्तुत करत आहे “अग्निपंख”, घेऊ इच्छाशक्तीचा ध्यास!!

डॉ.ए.पी.जे.अब्दुल कलाम यांनी लिहिलेले पुस्तक “अग्निपंख” याद्वारे त्यांनी प्रत्येक भारतीय मनाला आकाशाच्या पलीकडचं स्वप्न तर दाखवलंच पण ते जगणं सुद्धा शिकवलं. त्याचप्रमाणे त्यांच्या मते भारतीय युवक हा विवेकवादी व प्रयत्नशील आहे व सदैव असावा हे सुद्धा ठामपणे मांडले.

विद्यार्थ्यांचे आपल्या दैनंदिन जीवनातून थोडा वेळ काढून त्यांच्यातील कला-गुण ओळखून सतत त्याचा ध्यास घेत इच्छाशक्तीचे पंख प्रबळ करणे आवश्यक आहे. आणि म्हणूनच महाविद्यालयीन जीवनात विद्यार्थ्यांनी आपल्या कला गुणांना वाव मिळवून देण्यास, त्यांची स्वप्नपूर्तीकडे वाटचाल चालू ठेवण्यास आणि प्रयत्नशीलता वाढवण्यास अग्निपंख एक सुवर्णसंधी प्रदान करत आहे!!



PRAJWAL NISTANE
EDITOR



SAYALI JOSHI
CO- EDITOR

अग्निपंख



अनुक्रमणिका

१.अशी मी रंगली तुझ्यात

२.स्वप्न रेखले....

३.आयुष्यचे समीकरण..

४.आई - बाबा

अग्निपंख

५.मावळा तानाजी

६.मन हे माझे तुझ्यात रमले...

७. आयुष्य कलाकाराचे!

८.पहिली भेट

९.स्त्रीत्वाचे पैलू व भारतीय समाज

१०.अग्नितांडव आणि पर्यावरणाची हानी

अशी मी रंगली तुझ्यात

अशी मी रंगली तुझ्यात कि,
जीवनाचे सारे रंग न्हाऊन गेले
तुझ्यात रंगता रंगता,
रंग भरणाऱ्या त्या आई वडिलांना,
मी विसरू लागले,

तुझ्यात एवढी मी गुंतून गेली,
कि तुला स्वतःत मी पाहू लागली,
प्रतिबिंब माझं पाहता हास्य तुझे आठवू लागली,
ओढ अशी प्रीतीची कि
सारे आसमंत तुझ्या गंधाने दरवळू लागले,

ज्यांच्या सवे गायीले जीवनगाणे,
तुझ्या प्रीतीत मी त्यांना मुके केले,
तुला जीवनात जपता-जपता,
मित्र मैत्रिणीना दूर सारले,

तुझ्या आठवणीने मावळल्या कित्येक संध्या माझ्या,
पण या प्रीतीचा सूर्य कधी न उगवला,
लोक दाखवला गेले मार्ग

त्यांना जीवनातून हाकलून लावले,
पण तुझ्या प्रेमात मी फक्त
मीरा बनून जीवन काढले,

-उर्वशी खंडाईत तृतीय वर्ष

स्वप्न रेखले....

एक स्वप्न रेखले मी मनाशी.
मन मोकडे उडावे नभाशी ।

परिश्रमाचा लांब रस्ता .
गाठूया सांगे घेऊन हिम्मतीचा बस्ता ।

दूर दूर अंधारलेली वाट.
ठेवूनि आस,
सूर्य प्रकाशाची येईल लाट ।

संकटांचा जेव्हा सुटेल वारा,
तेव्हा घामाच्या गडतील धारा ।

आव्हान तेव्हा द्या स्वतःला.
मात देणार प्रत्येक संकटाला ।

पेटत्या मशालीची घेऊन साथ .
पुढे चालेल मी घेऊन हातात हात ।

स्वप्न बघण्या चा केला मी ध्यास,
नक्कीच पूर्ण करेल मी मला विश्वास ।
यशाचे सूर मग गुंजतील नभात.
आनंद पसरेल तेव्हा माझ्या मनात ।

-गौरव विजय जाधव
द्वितीय वर्ष



आयुष्याचे समीकरण..

मित्रांनो, मी काही लेखक नाही अथवा कवी नाही पण समाजातील मानवाच्या अवस्था पाहून माझा लिहिण्याचा मोह अनावर झाला म्हणून मी माझा दोटासा विचारा आयुष्याचे समीकरण' धावर होरासा या विषयावर वाडत आहे.

लहान होतो तेव्हा, कार्य करायचे कललेच नारी शाळेत बोलो तेका बालपण जगायचे कोणी शिकवलेच नाही. आयुष्याचे समीकरण सोडवताना सूत्र बनवली तरी आपल्याला सोडवता आले नाही.

मित्रांनो आपण अंगणवाडी, शाळेत जाऊ लाल , पण तुला 99% मार्क्स घ्यायचे आहे, नोकरी लागली पाहणे , तुला पैसा कमवायचा आहे असे कोणी सांगितल नाही, अथवा आपल्या डोक्यात आलचं नाही. समाजाचे आपण काही देणे लागतो हे बालपणी समजल नाही म्हणून मला वाटत बालपणी आपल्याला आयुष्याचे समीकरण सोडवताना सापडलेच नाही. मित्रांनी जेव्हा आपण तरुण झालो. तेव्हा अस म्हणतात की आपण पैशाने श्रीमंत झालो वैचारिक प्रगती झाली पण, रस्त्यावरील अपघाताच्या गर्दी च्या विळख्यात अडकलेल्या अपघाती माणसाला दवाखान्यात न्यायचे असते , हे माणूसकीच्या नात्याने आपल्याला कळलेच नाही कारण कळणार तरी कसे?कारण अपघाताचे वेळी प्रक्षेपण करण्यात व्यस्थ आपण असतो. आपले लक्ष त्या अपघाती माणसाकडे नाही, तर कोणाचे प्रक्षेपण किती छान आहे याकडे असते पण समाजाला आपण योगदान द्यावी लागते याचा विचार मात्र डोक्यात आला नाही. म्हणून मला वाटते आयुष्याच समीकरण सोडवताना. तरुणपणी सूत्र कोणत वापराव आपल्याला काही कुळलेच नाही.” म्हतारपणाची अवस्था जेव्हा आपली सुरु झाली तेव्हा आयुष्याच्या समीकरणाचा उत्तर काढण्याचे सूत्र आपल्याला सापडले म्हणजे अपघातात माणसाला दवाखान्यात न्यावे लागते ते कळाला. समाजाचे ऋण फेडायच हे ही कळलं. पण शरीराने कार्य करायची क्षमता मावळली होती आता दीलेल्या माणसाला आणि समाजाच्या चक्का डोळ्यांनी पाहण्याशिवाय दुसरा पर्याय उरलेलाच नव्हता

म्हणून मला वाटते “ आयुष्यात समीकरण सोडवताना म्हातारपणी सूत्र सापडला पण लिहिलाच आल नाही” गणिताचे समीकरण सोडवणं सोप असतं मात्र आयुष्यात समीकरण सोडवणे फार कठीण असतं “फसव्या या मुखवट्याच्या दुनियेत आपल्यांना कधी ओळखलेचं नाही मृगजळ ही दुनिया सारी ।

खोट्याच्या जवळ पळालेच नारी

गणित आयुष्याचे अवघड फार

समीकरण समाधानाने जुळलेच नाही”

आयुष्याच भलंमोठं समीकरण सोडवताना वेगवेगळं सूत्र वापरायचे असते हे मात्र आम्हाला कललेच नाही खरच आयुष्याच समीकरण आमचा सुटलाच नाही..

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आई - बाबा

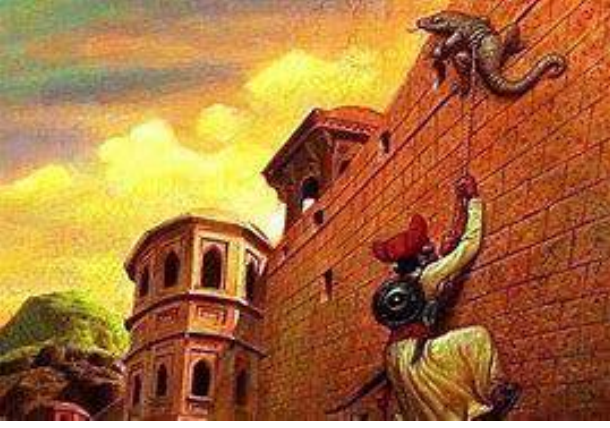
आई ने बनवलं बाबांनी घडवलं
आई ने शब्दांची ओळख करून दिली
बाबांनी शब्दांचा अर्थ समजवला
आईने विचार दिले
बाबांनी स्वातंत्र्य दिले
आईने भक्ती शिकवली
बाबांनी वृत्ती शिकवली
आईने लढण्यास शक्ती दिली
बाबांनी जिंकण्यासाठी निती दिली
त्यांच्या परिश्रमामुळे यश माझ्या हाती आहे
म्हणुन तर माझी आज ओळख आहे.

-वैभव निर्मल
प्रथम वर्ष



मावळा तानाजी

नावातच माज असणारा शिवरायांचा मावळा माणुसकीच्या वेळेला माणसातल्या माणुसकीचं दर्शन मावळा लढतीच्या वेळेला माणसातल्या जनावरांचा दर्शन मावळा कपाळी भगवा टिळा हाती वजनदार तलवार आणि म्हणून स्वराज्याचं रक्षण करणारा मावळा.



महाराजांचं शिवाजी महाराजांचे सैन्य मूठभर होतं शिवबांना सगळीकडून विळखा होता तिकडून निजाम तिकडून मोगल पलीकडे इंग्रज सगळ्यांचा निर्बंध राज्यांना लावायचा होता आणि स्वराज्य स्थापन करायचं होतं परंतु राज्यांना छत्रपती शिवाजी महाराजांना कशाची भीती...!!
मावळ्यांच मुठभर सैन्यचं शत्रूची हातभार फाडणारं होतं डोक्यात गनिमी कावा अंगात सळसळतं रक्त

ओठांवर हरहर महादेवाचा गजर कोण आडवा जाणारा या स्वराज्याच्या पिसाळलेल्या शिवभक्तांना महाराजांच्या आदेशाला मरणाहून अधिक माणणाऱ्या त्या मावळ्यांना कोण हरवणार...?

शिवाजी महाराजांच्या स्वराज्य रक्षणाच्या शपथेपासून ते कोंढाप्याच्या लढती पर्यंत सोबत असणारा महाराजांचा सवंगडी स्वराज्यरक्षक मावळा तानाजी मालुसरे अंगात दहा हत्तींचे बळ हरणा सारखी चपळता वाघाची तेज नजर दर्या खोऱ्यांचा एकेक कण त्याच्या रक्तात भिनलाय असा धिपाढ छाताडाचा तगडा मावळा अंगावर चिलखत असो वा नसो तलवारीचे घाव झेलणारा वाघ होता तो 1965 साली मोगलांसोबतच्या तहामध्ये महाराजांना कोंढाप्यासह इतर

22 किल्ले मोगलांना दिले यामुळे मराठी साम्राज्याला मोठी ठेच पोहोचली होती कित्येक मावळ्यांच्या बलिदानाने त्यांच्या रक्ताने पावन झालेले किल्ले पुन्हा मोगलांच्या ताब्यात गेले होते आईसाहेब जिजामाता चिंतेत होत्या कारण मराठ्यांची अस्मिता असणारा गड “माणुसकीला शमविणाऱ्या मोघल साम्राज्यात होता”

आईसाहेबांच्या इच्छेचा मान ठेवून राजांनी गड स्वारी करण्याचे ठरवले या लढतीत राजे एकटे लढणार कारण त्या दिवशी रायबाचं लग्न होतं राजांनी तानाजी ला पत्र लिहिलं माझा सखा तानाजी मला माफ करा कोंढाणा स्वारी वरून परतताना वेळ झाल्यास लग्नास उपस्थिती देऊ शकणार नाहीत.

महाराजांचं पत्र जसं तानाजीने वाचलं तसंच तानाजी मालुसरे शिवबांकडे गेले शिवबांना म्हणाले राजे आमचे छत्रपती आम्ही आहोत तोपर्यंत तर एकटे नाहीत लढणार आधी लग्न कोंढाप्याचे मग आमच्या रायबाचं भवानी आईच्या जिजाऊमाता यांच्या दर्शनाने तानाजी निघाले गड स्वारीला.

महाराजांना प्रणाम केला तानाजी वीर चालला शेलार मामा बंधू सूर्याजी आणि काही मावळे संगतीला टाच मारुनी घोड्याला तानाजी निघाला कोंढाण्याला.

रात्र अष्टमी 4 फेब्रुवारी 1670 तानाजी मालुसरे आणि काही मावळे गुंजवणी नदी पार करून कोंढाण्याच्या पायथ्याला आले कोंढाण्याच्या माचीवर मुसलमान धर्म घेतलेला राजपूत सरदार तैनात होता रात्र किररररर.....

माची एवढी उंच की फासे कुठून टाकायचे कसे टाकायचे याची सनकच लागेना, याची जाणीव माल तानाजींना होती ,त्यांनी आपली दयाखोऱ्यातील साथी घोरपड “यशवंती” सोबत आणली होती तानाजी बोलला यशवंतीला -

जागी हो यशवंते स्वाभिमानाला गड चढायचाय सर्व मावळ्यांना यशवंती ला कडेवर सोडलं आणि....

“जवा चिटकली घोरपड वर एक एक चढ” असं करून , एक एक मावळा वर चढू लागला शत्रूला काळीत घेऊ लागला कोंढाण्याच्या पुढच्या दरवाजावर आपले माणसं असावेत म्हणून तानाजींनी पुणे कडील दरवाजे चे पहारेकरी चराचरा कापला तानाजी एक एक दरवाजा आपल्या ताब्यात घेत होते याच गडबडीत उदयभान भानावर आला त्याने सैन्य गोळा केले अशातच किल्ल्याचा सर्नोबत सिद्धी हलाल तानाजीला आडवा आला दोघां मध्ये तुंबड जडली संतापलेल्या तानाजीच्या एका जबरदस्त वारान सिद्धी हलाल ला लाल करून सोडला.

पण काय काय काहीच वेळात कोंढाण्यावर वर चढण्यासाठी चा साखळदंड तुटला त्यामुळे तानाजीं चा बंधू सूर्याजी यांनी सर्व मावळे कल्याण दरवाजावर गोळा केले आता फक्त वाट होती दरवाजा उघडण्याची तानाजी हळूहळू कल्याण दरवाजा जवळ जात होते..

पण पण दैव जड उदयभान च्या जोरदार घावाने तानाजी हडबडले तानाजीची ढाल तुटली पण पण तानाजी पण कमी नव्हता कमरेचा शीला हाताला बांधला आणि आणि उदयभाणा सोबत लढत दिली पण घायाळ किती वेळ लाढणार?

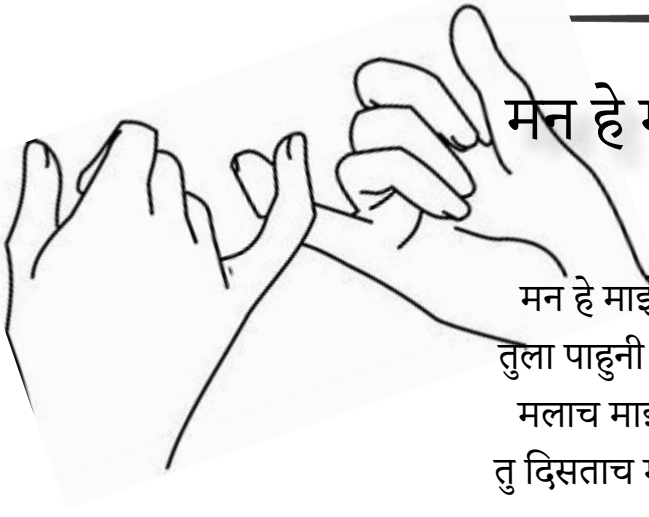
शेवटी तानाजी खाली कोसळले

तानाजी पडला म्हणताच ऐंशी वर्षाचा जवान मावळा शेलार मामा चवताळून उदयभानाला भिडला शेवटी कल्याण दरवाजा उघडला, सूर्याजीनं सैन्य चराचरा कापलं. ..

युद्ध जिंकलं, गड जिंकला ,भगवा फडकला, तोफांचा आवाज झाला छत्रपती राजे आनंदित झाले पण, गडावर पाहतच राज्याना समजले की तानाजींना वीरगती प्राप्त झाली महाराज म्हणाले “गड आला पण सिंह गेला” महाराजांनी कोंढाण्याला सिंहगड नाव दिले.असे होते निधड्या छातीचे तानाजीमालुसरे मरताना सुद्धा इतिहास बनवणारे तानाजी जैसा वीर होणे नाही....!

-विजय ढाकणे

प्रथम वर्ष



मन हे माझे तुझ्यात रमले...

मन हे माझे तुझ्यात रमले
तुला पाहुनी तुझ्यात हरवले !
मलाच माझे काही कळेना
तु दिसताच मन तुझेच झाले !

मलाच माझे शब्द कळेना
शब्दांतील त्या भाव उमजेना !
आठवणींच्या गोड सागरी
प्रेमाच्या लाटा थांबेना !

जिकडेतिकडे तुझेच असणे
तु नसतानाही तुझेच दिसणे !
काहूर मनी प्रश्नांचे उठले
हे खरे, की आभास सारे !

तुझी नी माझी, प्रित ही जुळली
जन्मोजन्मीची गाठ ही पडली !
तुझ्या रुपाने तु दिसल्याने
माझी जीवनवेल बहरली !

तुला सांगतो तु गेली तर
जगणे अशक्य आहे !
पन वेळ तशीच आली जर
तर मृत्युमिठी प्रिय आहे !

-राज ठाकरे
-द्वितीय वर्ष instru

आयुष्य कलाकाराचे!



कलाकार ! कलेला आकार देणारा, साकारणारा व रसिकांसमोर सादर करणारा कलाकार ! “कलाकार मै कल को आकार दू” अशा शब्दात गली-बॉय या सिनेमात कलाकारांची उत्तम व्याख्या केलेली आहेच! लोकांना नवीन पहाट देऊन जगण्याचं रहस्य शिकवणारा म्हणजे कलाकार! तरीही बहुतांश लोकांना ती व्याख्या अजूनही कळलीच नाही! आजही लोकांमध्ये अनेक गैरसमज आहे! आजही साधारण लोकांना कला क्षेत्र हे एशो-आरमाच, सुख सोयीचं वाटत; आणि कित्येक पालक तर आपल्या मुलांना या क्षेत्रात पाठवत नाही कारण त्यांच्या पालकांनी ‘ कला हे क्षेत्र घाणेरड आहे ’, हे त्यांच्या मनात ठासून भरलेलं असत. इतर क्षेत्रा प्रमाणे कला हे सुद्धा एक साधारण क्षेत्र आहे. फक्त इतरांपेक्षा वेगळ म्हणजे इथे मीडिया कव्हेरेज लवकर मिळतो, हेच एक नवीन! तो का मिळतो, कलाकारांना त्यांचं खासगी आयुष्य असावं की नको, हा एक वेगळा वादाचा मुद्दा आहे! पण २०१९ चा विचार केल्यास कला हे क्षेत्र नक्कीच एक उत्तम पर्याय असू शकतो. पण आवड नसून ग्लॅमर बघून इकडे येत असाल तर आताच आले त्या पावली परत फिरा, असा सल्ला नासिर सर देतात. अशांना पृष्ठभागावर लाथ मारून हकालते हे क्षेत्र!

सुरुवातीच्या काळात प्रत्येक कलाकार आपल्या कलेला आकार देण्यात व साकारण्यात मग्न असतो. परिश्रम, चिकाटी आणि नियमित सराव याने कलाकार हा यशाची उंची गाठतो. कलानगरीच्या विश्वात आपला ठसा उमटवतो. या झगमगाटात तो सुद्धा एक तारा होतो आणि आपल्या कलेचा प्रकाश पसरवतो. पण उंचीला गेला म्हणजे तो सुरुवात विसरतो असे नाही. हं, काही कलाकार असतीलही, पण ते बोटांवर मोजण्या इतकेच! सुरुवातीला सोसलेले कष्ट, माय-बापांचे झालेले हाल, पैशाअभावी वेळ आल्यावर विकेलेली गावातील जमीन, या सगळ्या गोष्टींचा कलाकार जाणकार असतो. आपल्यापैकी बहुतांश लोक कलाकारांना उद्धट, रागीट, व्यसनी, अहंकारी, दारू पिऊन तमाशे करणारेच समजतात. समाजात काही कलाकार असतीलही तसे, पण चांगल्या कलाकारांच काय? अशा माथेफिरू कलाकारांना नटराज त्यांची योग्य जागा दाखवतोच!

चित्रपटसृष्टीबद्दल बोलायचं झालं तर लोकांना वाटत की यांचं जीवन म्हणजे रोजची ऐश आहे! पण एका सामान्य नोकरी करणाऱ्या व्यक्तीपेक्षा कितीतरी जास्त काम कलाकारांना असत! हे मुळात ग्लॅमर च क्षेत्रच नाही आहे! ग्लॅमर दिसतो तो फक्त ७० एमएम च्या त्या स्क्रीन पुरता आणि एखाद्या प्रमोशन इव्हेंट पुरता! मुळात तो गाजा वाजा केलाही यासाठीच जातो की तुमचा आमच्या सारखे वेडे सिनेमा वेडे व्हावे. कुठल्याही चित्रपटाची निर्मिती ही आनंददायक नसतेच! कुठलाच वेळ निश्चित नाही, कुठलाच काळ निश्चित नाही... जेव्हा काम मिळालं तेव्हा बंजाऱ्या सारखं आपल गाठोड बांधायचं आणि काम झालं की परत नवीन कामाच्या शोधात निघायचं, हाच कलाकारांचा दिनक्रम. कधी कधी तर कित्येक दिवस

कामाशिवाय काढावे लागतात. दोन वेळेच्या भाकरीचे वांदे होतात. मग तुम्हीच सांगा यात कुठे आल ग्लॅमर?

प्रत्येक कलाकाराला वाटत की साऱ्या जगाने त्याला ओळखावं, त्याच्यावर प्रेम करावं, त्याच्या कलेची प्रशंसा करावी, पण ज्या दिवशी लोक त्याला ओळखायला लागतात, त्या दिवशी तो गाडीला काळे काच बसवून लोकांपासून लपून फिरतो, किती विरोधाभास हा! पण मित्रांनो ते सुरक्षेच्या दृष्टीने गरजेचं असत! प्रत्येक कलाकार हा त्याच्या फॅन्स ला भेटायला त्याच्या फॅन्स पेक्षा सुद्धा उत्सुक असतो! पण बरीच कारणे आणि बिझी शेड्यूल मध्ये त्याला वेळच मिळत नाही! म्हणून असल्या गोष्टींवरून तरी कलाकारांना ट्रोल कारणे टाळा! कारण कलाकार किंवा सेलिब्रिटी ते नंतर असेल, आधी ते आपल्या प्रमाणे सामान्य माणूस आहे, या समाजाचा एक भाग आहे! त्यांनाही स्वतःच स्वतंत्र मत आहे. म्हणून त्यांना शिव्या देणं किंवा त्यांच्या मागे वेड्या प्रमाणे धावण्यापेक्षा त्यांच्यावर प्रेम करा, त्यांचा आदर करा! तेव्हाच एखाद्या कलाकाराचे तुम्ही खरे फॅन ठराल! बघा पटतय का? कळवा तुमचा अभिप्राय!

रोहन प्रदीपराव देशमुख
तृतीय वर्ष



तेव्हाच तीने हे हृदय जिंकले.
तीच्या चेहर्यावरचे ते निखळ हसू ,
क्षणोक्षणी जागोजागी लागले दीसू.

तिला आवडते फार मस्ती,
कारण ती आहे माझ्यासाठी एक special हस्ती.
तिला बघताच चेहर्यावर एक छोटंसं हसू येतं ,
आणि हे मन तिच्याच विचारात रमून जातं.
हसतांना ती खूप छान हसते,
पण हसता हसता खूप काही सांगून जात असते.

तीच्या ओठांखालील ते एक छोटंसं तीळ ती हसताना खूप उठून दिसते, प्रत्येकाला नाही मला वाटते
फक्त मलाच दिसते.

दिसायला असली जरी ती छोटी ,
तरी तिच्या विचारांची किर्ती खूप मोठी.
इवले इवले डोळे तीचे नकटे नकटे नाक,
कशी देऊ तीला माझ्या प्रेमाची हाक.
पण मला न तिची मैत्री नाही गमवायची ,
कारण भिती वाटते हो तिच्या सारखी चांगली मैत्रीण हरवायची.

सौरभ सातव

स्त्रीत्वाचे पैलू व भारतीय समाज



एक आई.एक बहिण.एक आजी.एक पत्नी.एक मुलगी.एक मैत्रिण.
स्त्रीच्या या विविध व्यक्तिरेखा.खरेतर तिचे आयुष्य तिच्याहून अधिक
इतरांसाठीच!!अगदी निखळ,निस्वार्थी आणि स्वतःच्या आयुष्यात
व्यस्त असणारया आणि तरीही आपल्या केवळ असण्यानेच
सभोवतालचे वातावरण प्रफुल्लित करू शकणारया या मुली जसजश्या
मोठ्या होतात ,जगाचे भयान सत्य त्यांना जाणवू लागते..येताजाता
माणसांच्या खालून वरपर्यंत फिरणारया नजरा आणि त्यांचे अर्थ
उमजू लागतात.अशातच स्वतःला मिळणारया थोड्या आनंदासाठी
,वासनेपोटी मुलींचे आयुष्य उध्वस्त करणारया लोकांच्या बातम्या
कानी पडतात आणि त्या निखळ,कोमल,फुलांसारखे मन असणारया

मुली कुठेतरी दबून जातात,कमी पडतात!!

ज्यावेळी भारतासारख्या विकसनशील देशाच्या न्यायव्यवस्थेचा मुद्दा येतो,मला हा प्रश्न पडतो,निर्भया
सोबत जी घटना घडवून आणायला आणि एवढे वाईट कृत्य करायला ज्यांनी अवघा काही वेळ घेतला त्या
निराधमांना शिक्षा द्यायला ही न्यानव्यवस्था सात वर्ष का लावतोय!!!आणि या घटना वारंवार घडत असताना
,एक लक्षात येईल की मजा मारणारे हे आरोपी सहज निघून जातात,मात्र जी स्त्री हे सर्व सहन करते ,यातून
जाते तिला मात्र उरलेले आयुष्य थारयावर आणायला फार मेहनत करावी लागते.मुलींनी या अन्यायाविरुद्ध
आवाज उठवू पाहला तर त्यांना 'समाज काय म्हणेल'या प्रश्नालाही सामोरे जावेच लागते आणि मग हाच
समाज कुठेतरी मुलींच्याच चारित्र्यावर संशय घ्यायला मागेपुढे बघत नाही,हेही भारतातील एक कटू सत्यच!

मुलींनी मुलींसारखेच वागावे,मुलांसोबत मौजमस्ती करू नये,फावला वेळ बाहेर घालवू नये आणि प्रसंगी
त्यांच्या वर्तनावर,मनमिळावू स्वभावावर आणि कपड्यांवरही प्रश्न उठवला जातो!!खरच हे सर्व गरजेचे आहे
का?या गोष्टी मुलींनी बदलवल्या तर काय हे सर्व थांबेल??आणि या गोष्टी बदलल्या तर देशाचे वातावरण
बदलनार नाही का?पुन्हा पुरुषप्रधान संस्कृती,पुन्हा 'चूल आणि मूल' प्रथा!!तर मग हे कितपत योग्य ,याचे उत्तर
तर हा भारतीय समाजाच देऊ शकेल.

खरेतर गरज आहे ती आपल्या मुलांना लहानपणापासूनच योग्य शिकवण देण्याची!मुलींना
घरात बसवण्यापेक्षा,आपल्या मुलाला बाहेर पडताना,मुलींकडे आदराने बघण्याची शिकवण आईने
देण्याची!!आपल्या मुलीला शारीरिक व मानसिकरित्या सबळ करण्यासाठी प्रत्येक बापाने धडपड
करण्याची!आणि प्रत्येक मुलीने धैर्याने आलेल्या प्रसंगाला सडेतोड उत्तर देण्याची!!

चल पड के हर मुश्किल राह तुझे आजमानी है,
क्या हुआ गर तेरी पलको पर ठहरा हुआ पानी है,
तू टूटी-बीखरी कई दफा, तुने खुदको समेटा भी है,
तू परबत जैसी सख्त और लहरो सी नादानी है,
तेरे कदम जमी चुमे तेरा हौसला
जो आसमानी है,

तू लाडली है इस घर की, इसी घर का तू बेटा भी है।

असा बदलता भारतीय समाज ज्यावेळी जन्म घेईल, त्यावेळी या भरतभूमीत मुलींनी जन्म घेण्यास अर्थ उरेल, या भारतमातेचा जयजयकार, 'भारत माता की जय' असा स्त्रीलिंगी करताना विचार करावा लागणार नाही. गरज आहे ती याच भारतमातेला सुरक्षित ठेवण्याची आणि राम मंदिराच्या मुद्द्यावर चर्चा करण्याआधी देशातील सीतेला सुरक्षित ठेवण्याची!!

-भाग्यश्री पांडुरंग खंडारे
(संरचनात्मक अभियांत्रिकी
द्वितीय वर्ष)



अग्नितांडव आणि पर्यावरणाची हानी

सध्या ऑस्ट्रेलिया मध्ये सुरु असलेल्या अग्नितांडवात आतापर्यंत ५० कोटी प्राण्यांचा जीव गेले आहे. जवळपास ऑस्ट्रेलिया च्या तीन विभागाचा ५०,००० चौ.कि.मी चा क्षेत्र जळून खाक झालेला आहे. तरी सुद्धा न्यू साऊथ वेल्स शेतात अग्नितांडव सुरुच आहे. ऑस्ट्रेलिया मध्ये अशी आग ही नित्याची बाब आहे, दरवर्षी ती होते आणि काही कार्यकाळ नंतर तिचा अंत होतो. पण यावेळेस तिने अती रुद्र रूप घेऊन जीवित हानी आणि पर्यावरणाची हानी मोठ्या प्रमाणात घडवून आणली आहे. पर्यावरण विभागाने प्रधानमंत्री कार्यालयाला आधीसुचना दिली होती पण त्यांनी ती दुर्लक्षित केले एवढेच नाही तर स्वतः प्रधानमंत्री 'स्कॉट मॉरिसन' आपल्या कुटुंबियांसमवेत फिरायला गेले होते, आता अग्नि नियंत्रणा बाहेर गेल्याची कळल्यावर ते परत आले. पण ह्या दुर्लक्षित पणामुळे जे तिथल्या प्राण्यांना, लोकांना, पर्यावरणाला हानी भोगावी लागली त्याचं काय? जगात आज कोणतीच सरकार पर्यावरणावर विचार करते ये निदर्शनात येत नाही. ब्राझीलच्या अमेझॉन मध्ये लागलेले आग ही ताजी बाब असताना ऑस्ट्रेलिया ने त्याचा काहीही बोद नाही घेतलेला दिसतो. जगात इस्राएल च असा एकमेव देश आहे ज्यात २० व्या शतकाचा तुलनेत २१ व्या शतकात जास्त झाडं आहेत.

जर जगात असा प्रकार चालू राहिला तर आपणही जास्त वेळ ह्या विश्वात तग धरू शकणार नाही. ऑस्ट्रेलिया मधल्या वणव्या चे दूर दूर पर्यंत पडसात दिसत आहे, अवघ अवकास नाहीसा झाला वाटतो धुरा मुळे. ब्राझिल चा अमेझॉन वर्षावन जगातील २०% ऑक्सिजन निर्माण करतो. त्या वनाचा मागचा वर्षी १०,००० चौ.कि.मी चा क्षेत्र नाहीसा करण्यात आला आहे. जाणूनबुजून आपला नफा बघुन तिथल्या लोकांनी केलेला हा कृत्य, आणि याला तिथल्या राष्ट्रपती जैर बोलसोनारो यांचा पूर्णपणे पाठिंबा, हि मानवी हितासाठी चिंतेची बाब आहे. भारत सरकारने कायदा करून सुद्धा हरयाणा पंजाब मधील शेतकरी परळी जाळून मोठ्या प्रमाणात पर्यावरणाची हानी करतात.जगात येवढ्या पर्यावरण संबंधी परिषद भरवुन सुद्धा जर हे होत असेल तर आणखी काही मोठ्या प्रमाणात करणे आवश्यक आहे. ग्रेटा थंडरबर्ग सारख्या पर्यावरण प्रेमी लोकांना आपल्या ला मोठ्या प्रमाणात पाठिंबा द्यायला हवं आणि आपल्याला सुद्धा पर्यावरण संबंधी खूप जागरूक राहून समाजात या बदल जागरूकता घडवून आणले तरच या विश्वाचा अंत होण्यापासून वाचेल.

-उज्वल कुर्झीकर

तृतीय वर्ष सिव्हिल इंजिनीरिंग



INTERVIEW - 3



DR. PRAKASH BABA AAMTE
MAGSAYSAY AWARD WINNER
SOCIAL WORKER

1) एखादे चांगले काम करताना आपल्याला नेहमीच समाजाकडून विरोध होत असतो, तर त्याला आपण कसे हाताळले?

Ans:- आम्ही सर्वप्रथम बाबसोबत जेव्हा जंगलात आलो, इथे राहिलो तेव्हा आम्हाला येथील बिकट परिस्थितीविषयी कल्पना आली आणि इथल्या आदिवासींची दयनीय अवस्था बघून मनात एक दृढनिश्चय केला कि येथून पुढे याच लोकांसाठी कार्य करायचे. जेव्हा आम्ही कार्याला सुरवात केली तेव्हा हे खरे के याच लोकांचा आम्हाला विरोध होता. पण हळू हळू आम्ही त्यांना समजावण्याचा प्रयत्न करू लागलो, त्यांच्याशी आपुलकीने बोलायला लागलो तेव्हा त्यांच्याही मनात जी जगाविषयी असुरक्षितता होती ती कमी व्हायला लागली आणि हळू हळू त्यांचा आमच्या कार्याला विरोध हि कमी होत गेला.

२) सर आपल्या आजपर्यंतच्या कार्यात आपण अनेक नकार पचवलेत, अनेक चढउतार पाहिलेत पर्यंत एकीकडे आपण बघतो कि आजची युवा पिढी नकार पचवण्यात असक्षम आणि यातूनच पुढे अनेक टोकाची पाऊले उचलली जातात तर अश्या पिढीला टोकाचे निर्णय घेण्यापासून परावृत्त करण्यासाठी आपण कोणता संदेश देऊ इच्छीत?

Ans:- कसा आहे मुलांनो नकार पचवण्याची क्षमता हि मुळात लहानपणापासूनच असायला हवी. मी जेव्हा तुमच्या वयाचा होतो तेव्हा पासूनच मला नकारांची सवय आहे कारण बाबांनी आमच्या सर्व इच्छा किंवा मागण्या कधीच पुरवल्या नाहीत कारण तेव्हाची परिस्थिती तशी नव्हती आणि मुलांना नकार पचवता यावा हा सुद्धा हेतू बाबांचा त्या मागे होता. तेव्हा मी तर म्हणेल कि मुळात पालकांनीच मुलांना नकार पचवण्याची सवय लावायला हवी.

३) सर आपल्या मते समाजकार्य म्हणजे नेमके काय?

Ans:- मुलांनो माझ्या मते समाजकार्याला शब्दात बांधता येणार नाही, पण समाजाच्या भल्यासाठी व समाजातील वंचितांसाठी, निराधारांसाठी केलेले कार्य म्हणजे समाजकार्य म्हणता येईल पर्यंत त्यासोबतच सजीवांसाठी निस्वार्थापने केलेले कार्य हि सर्वसमावेशक व्याख्या बदलत्या काळानुसार जास्त योग्य आहे.

४) माणसाला पुरस्कृत झाल्यानंतर गर्व चढतो आणि त्यामुळे अहंकार वाढतो पण

आपल्यात अहंकाराचा लवलेशही नाही, कसे?

Ans:- आम्हाला बाबा नेहमी सांगायचे कि,”मुलांनो तुम्ही आयुष्यात यशाची कितीही उंची गाठली तरी तुमचे पाय मात्र नेहमी जमिनीवरच असू द्या, मिळालेल्या यशाचा कधीही गर्व बाळगू नका”,त्यामुळे त्यांची हि शिकवण बालपणापासूनच इतकी मनात रुजली कि त्यामुळे आता कितीही पुरस्कार मिळाले, मानसन्मान मिळाले तरी अहंकाराचा स्पर्श सुद्धा कधी होत नाही.

५) सर तुम्ही माडिया आदिवासांच्या उद्धाराचे कार्य हाती घेतले, त्या साठी लोक बिरादरी प्रकल्पाची स्थापना केली तरी तुमच्या या कार्यामुळे कोणते लक्षणीय बदल आदिवासींच्या जीवनात घडून आलेत व किती प्रमाणात त्यांची जीवनपद्धती बदलली.

Ans:- जेव्हा या कार्यास लोक बिरादरी प्रकल्पाच्या माध्यमातून प्रारंभ केला तेव्हा इथल्या आदिवासींची अवस्था लक्षणीय बिकट होती. इतर जगाशी त्यांचा काहीही संबंध नव्हता.अंगावर कापड नव्हता, पोट भरायला साधा तुकडा नव्हता कारण त्यांना शेती करणे माहीतच नव्हते,आरोग्यासंबंधी अनेक समस्या होत्या आणि शिक्षणाची तर गोष्टच नको पण जसा जसा आमचा इथल्या लोकांशी संपर्क येत गेला तसतसे अनेक लक्षणीय बदल घडून आले. आज हाच आदिवासी समाज जगाच्या मुख्य प्रवाहात आला आहे.अनेक आदिवासी विद्यार्थी डॉक्टर, लेखक, शिक्षक,वकील बनले आहेत.आज इथले आदिवासी उत्तम शेती करतात. असे बदल त्यांच्या जीवनात घडून आले.



INNOVATION EDGE

The Technical Section of INNOVENGERS 2019 - 20

Technology is the key driver of the 21st century. Recent advancements in quantum computing, artificial intelligence, UAVs and biomedical engineering are the key aspects to look for progress in recent years. The last decade has proved that Indian engineers have started focusing on start-ups right in India here. Bangalore is emerging as the new Silicon Valley for budding startups.

Start-ups are not as organized as the big tech companies. As a result, a person is assigned a lot of work and responsibilities. Learning 'industry required skills' is the key factor during the initial career phase of any individual. When we are at an established organization, we come across professional behaviour which is vital for the development of soft skills. This environment is not present at startups.

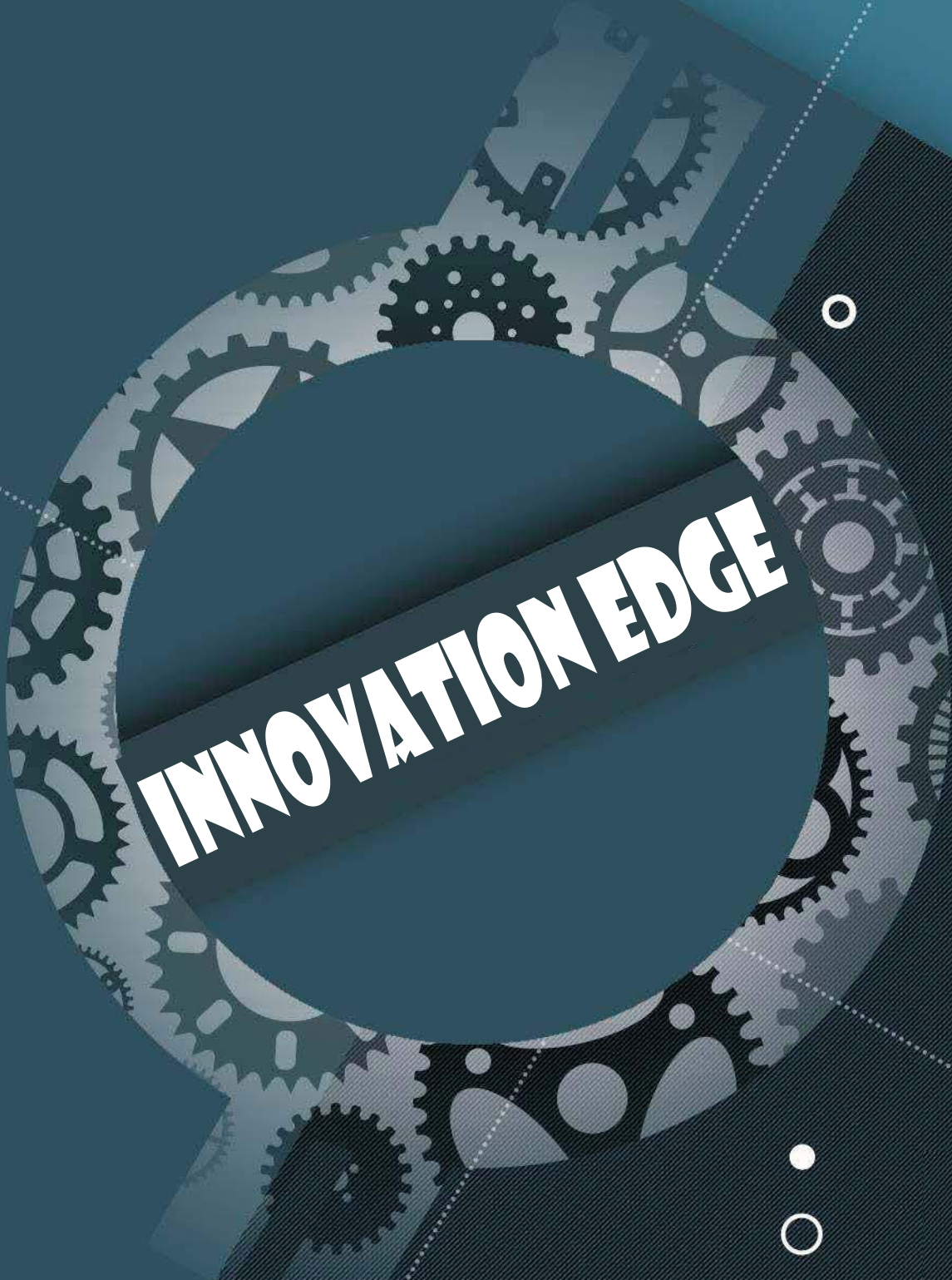
Instead of focusing on specializing around one skill, having a basic knowledge of all domains helps when we are just started. Further exploration helps realize our strengths and thus the area of interest can be pursued.



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INNOVATION EDGE





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Seimens Scholarship Guidance

Hello Readers, I'm Abid Khan student of Third Year Electrical Engineering and beneficiary of Siemens Scholarship Program. This article is about how to apply for Siemens Scholarship and its benefits. As we all know Engineering Education is getting costlier day by day in the state like Maharashtra, even in Government Colleges too, unless you have any subsidy or waiver scheme. Apart from college fees one student also need to pay other charges in the form of Room rent & mess bill which is quite high, so it is kind of heavy burden on family. But no worries if you have strong determination of studying in Engineering domain and want to make your parents feel proud, this article is definitely for you.

Who can apply for this scholarship?

Only fresher students of Engineering First year can apply for this scholarship from any branch except Civil Engineering and the student must be from either Government Engineering College or Government Aided Autonomous Engineering College. This scholarship is mainly targeting needy & financially weak students to uplift their career. Student needs to apply online by visiting their site and fill the required information.

What are the eligibility criteria for applying?

As I have mentioned earlier in this article it is for financially weaker student, the family income of student must be less than 2.5 Lakhs per annum, student must have at least 60% Marks in HSC & 70% Marks in SSC along with a decent score in JEE mains & State board entrance exam like MHT-CET.

What are the criteria of Selection?

After short listing the names on the basis of information you filled, you get a mail to come for further examination. Depending on the results of further examination, they visit your home to analyze the validity of information you filled, after that you may get the scholarship.

What are the benefits of Scholarship?

First of all, it is kind of best feeling when you get the Scholarship, because you don't need to worry about your next year college fee and other expenses because they provide strong support and makes you industry ready. The Scholarship includes complete college fee for every year along with this they give Rs. 30,000 allowance every year based on the academic & different soft skill-based performances of the student which are carried out throughout the year by them. And the scholarship also includes Laptop to every student with a laptop bag.

Also, they provide Siemens Mechatronics Workshop with German Certification for free which nearly cost Rs. 20,000 if you go privately. Students will get basic Mechatronics & PLC training in Second Year's winter vacation & advanced Mechatronics & PLC training

in Third Year's winter vacation. You'll come to meet the students across the India. They enhance our personality by taking various soft skills seminars and workshops probably two times in a year. And also, Scholarship includes two internships in summer vacations, of one in Second Year and second in Third Year. Every time when you travel and stay for Scholarship program, they reimburse the travelling charges and arrange food & hotel for stay. The Scholarship will be with you all four year of Engineering unless you get year discontinued or the validation of your information goes wrong.

The Scholarship is based on German Dual model of education. On a concluding note I must say with this Scholarship you will be financially independent and can focus completely on your studies without thinking much about the expenses as a student. Main motive of this program is to make you industry ready, as we all of must heard one thing that 80% of Engineers are unemployable because the way of Engineering study is.

Thank you.

Are Electric Vehicles Green?

Transforming the way we travel is an essential part of tackling the climate crisis. The transport sector contributes about 20% of global carbon emissions. In the UK the figure is 33%, and the country has made virtually no progress in reducing emissions from transport. In many countries, they're actually increasing.

Electric vehicles are often hailed as the solution to this quandary, but some question their environmental credentials. With much of the world's electricity still produced from fossil fuels, the criticism goes that EVs may actually be responsible for more carbon emissions over their lifetime than combustion engine vehicles.

As German economics professor Hans-Werner Sinn put it in a recent controversial article, all we are doing is transferring carbon emissions "from the exhaust pipe to the power plant".



The assumptions underlying these claims are questionable. But even if true, this line of argument misses a key point. The car we choose to buy today directly influences the future of our energy system. Choose a combustion-powered vehicle and we lock in ongoing fossil fuel use. Choose an electric

and we support the switch to a zero carbon society.

Due in large part to the high carbon-cost of EV batteries, the manufacturing process for an electric vehicle causes more carbon emissions than for a combustion engine vehicle. This means that the source of electricity used during the life of an EV is critical in determining how eco-friendly they are.

While two thirds of the world's electricity is generated from fossil fuels, this proportion is decreasing rapidly. At least four countries are already at or close to being powered entirely by renewable electricity: Iceland, Paraguay, Costa Rica and Norway. Brazil is one of the ten largest economies in the world and they are at 75% renewable electricity. In the UK, the proportion of electricity provided by fossil fuels has halved over the last decade and is currently about 40%.



As the transition towards renewable electricity progresses, so too will the carbon footprint of EVs keep decreasing in step. This means that the superiority in carbon cost that electric vehicles already have over combustion vehicles, even if narrow now, will widen in the years to come.

Influencing the future:

The electricity transition is only half the story. The production and purchase of new combustion vehicles locks in dependence on fossil fuel use for the life of that vehicle – just short of 14 years on average in the UK.

Retrofitting combustion engines to use hydrogen or biofuel is an option in theory, but it's an expensive one which is probably more applicable to heavy vehicles than cars. Mass use of hydrogen would also require an entirely new and complex distribution system for a gas that is hard to make and store efficiently. Biofuel could use existing infrastructure, but would require vast swathes of agricultural land to satisfy demand.

If the number of fossil-fuel powered cars on the road stays high, it will be difficult to make serious headway in reducing transport emissions. In contrast, switching to EVs transfers energy demand from the transport sector to the electricity sector, allowing countries to more readily tackle the carbon cost of travel.

Progress in doing so is of course dependent on the speed at which industry and government decarbonise their energy supply. But the technology already exists to shed the grid's

reliance on fossil fuels, and many countries have committed to do so by 2050 or sooner. The distribution grid also already exists – we just need to install charging stations.

And in choosing where they source their electricity from, consumers are able to exert much greater influence on the energy transition than the present transport system that locks them into high-carbon lifestyles. Given that renewable electricity tariffs are already among the cheapest available, this could be a particularly potent force for decarbonisation.

Grid burden:

The scale of the transition from combustion to electricity-powered transport is huge. Average household electricity demand could double once EV charging is included, and this will place extra strain on both the grid and energy bills.

But this burden can be cushioned by careful use of technology. For example, cars can be charged overnight when there is surplus capacity, and there are already special energy tariffs to encourage this. Spare electricity from car batteries could also be redirected to the grid when demand is at its peak, making EVs “virtual power plants” that can offset increases in household energy bills.

Of course, producing any large industrial product results in some negative environmental impacts. The mining of lithium for EV batteries is polluting and depletes water supplies, in turn harming wildlife and compromising local livelihoods. Ultimately, the best way to reduce the carbon and pollution costs of transport is to make and use less cars, which means that expanding car sharing and improving public transport are essential.

But for those cars that we do use, EVs are the least bad option. The switch to electric vehicles needs to be seen as part of a broader shift in the way society is organised to tackle the climate crisis. That requires consumers, industry, and government to all play their part in creating a carbon-free future.

Diving into embedded systems via internships

Internships, rather to say, hard to get or an easy sweep. It depends when it comes to finding an internship of your choice. In any field, they are hard to get but first you need to be clear on your area of interest. And internship must be a hands-on one not just an observation and pouring down things particularly here and there.

Embedded systems are a combination of computer hardware or software, either fixed or programmable designed for a specific function. When you dive into this topic, you will be lost as it is very vast dealing with sensors, controllers, processor of various types and different applications. Generally, the internships which are stipendiary require skills in which you are being utilised by the company or help for their project. To get into such internships, you first need to excel in a particular field. And there are paid internships in which they teach you about the recent trends but they are not that useful. Basically, in embedded systems, you learn from the basic board set like arduino, R pi and their applications based on them. But embedded systems is way more than that. Here you dive deep and deep into the depths of embedded systems: single work can be done by numerous ways.

While working with embedded systems, your programming skills should be good. Not only that, but hardware knowledge is also needed and all these things are easily available online. You just need to search. As you get it, lastly, internships make you aware with the recent trends requirements in your field by the companies or firms and to deal with real life application projects on a greater scale. Don't just do internships to add up a line in your resume or CV but to learn and understand the things in a better way with hands on experience.

Best of luck!

Artificial Intelligence: A curse or A blessing for today's mankind

The late Stephen Hawking famously expressed his secret fears that AI might one day take over, saying that thinking machines “could spell the end of the human race.” In the present time, science and technology has reached a whole new level. In this new era, all those things are possible which humans hadn't thought of even a century ago. Some examples are maglev trains, satellites, space communication and much more that we can't even think. A rapid change in today's technology has a great effect on the human life but this technology also create a devastating problems.

Today's rapidly growing technologies such as AI technology, quantum computing, driverless vehicle, etc. has a huge effect on human kind. AI technology is one them which change the today's world in every way, in every aspect. Artificial Intelligence is rapidly changing the surrounding environment about everything – from translation to speech recognition to jobs to decision-making processes. AI is likely to affect just about every business around the globe because of its hundreds of thousands of benefits. But with all the hype surrounding what AI can automate and relieve human beings from manually having to do themselves, is AI truly the blessing it's presented itself to be – or a curse? According to the English Oxford Living Dictionaries, Artificial Intelligence is defined to be “The theory and development of computer systems able to perform tasks normally requiring human intelligence, such as visual perception, speech recognition, decision-making, and translation between languages.” In other words, AI is about training machines to adapt human intelligence to think and act in a way humans would do.

While taking about the advantages of AI technology, it has high accuracy level. We know the thing which differentiates humans and machines is Accuracy level. We humans make mistakes unknowingly which cost us later but in the case of AI powered machines, accurate data is obtained. In this modern world, the health industry is in great advantage after the application of artificial intelligence. By means of this, doctors not only check the health risks but also learn the side effects of various medicines. Presently, maximum of the operations in the hospital are done with the help of this technology. AI-driven machines lend a hand during surgeries, which consequently leads to high success ratio. In a nutshell, artificial intelligence is positively impacting the medical field.

Not only it is better for human kind but also it makes life easier. We can access desired information from the internet by simply giving voice commands. All this happens because of AI-powered voice assistants like Siri, Cortana, Alexa etc.

Another advantage of artificial intelligence is traveling issues are reduced to a great extent. Now, we can go for tension-free long drives, as GPS is almost always there to help. Barring this, you can click perfect pictures due to facial recognition technology based on

AI, do highly-secured banking, enjoy seamless online shopping, etc.

The major reason behind AI's hefty price tag is its complex algorithms. Plus, the cost of repair and maintenance of machines powered by artificial intelligence is also very high. With time, the price of AI powered machines is coming down, though it is still hard for business with margins to bring applications of artificial intelligence into operations.

In the business field, AI is taking huge jobs opportunities from the today's youth generation. It causes huge unemployment in the youth. It is because some people say it's just a myth, while some believe AI creates new jobs. No offense, AI has been creating new jobs since its introduction, but indirectly it has been causing unemployment too.

AI-based machines are replacing humans from where repetitive tasks are supposed to be done perfectly. To put it briefly, AI-driven applications are a threat for those people who are doing labor-intensive tasks or working at non-managerial positions.

FACEBOOK shut down an artificial intelligence experiment after two robots began talking in a language only they understood. Bob and Alice are the two chatbots which are developed by the Facebook AI research in the last couple of days. A little trepidation around having two bots (backed by neural networks) talk to each other like this is perhaps understandable, but it's important to understand that they were only really doing what they were told, and the implications are far less than some more hysterical corners of the media would have you believe. The really interesting part revolves around what happened next, when the bots were directed at each other, the way they talked to each other became impossible for humans to understand. A robot expert said the revelation that Facebook machines had spoken in their own language was exciting — but also incredibly scary. UK Robotics Professor Kevin Warwick said: "This is an incredibly important milestone, but anyone who thinks this is not dangerous has got their head in the sand.

This is the first recorded communication but there will have been many more unrecorded. Smart devices right now have the ability to communicate with each other in their language and although we think that we can monitor them, we have no way of knowing that what they communicate.

The question doesn't arise whether machines will become too intelligent or learn to the point of a robot takeover. While AI is fascinating and the stuff of science fiction, its emergence also raises many concerns, especially in its applications.

The late Stephen Hawking famously expressed his secret fears that AI might one day take over, saying that thinking machines "could spell the end of the human race." There's irony in his concerns considering that Hawking had to rely on AI to give him the voice that allowed him to interact with the world.

There is no right or wrong, good or bad, left or right when it comes to the topic of Artificial Intelligence. What we know is that it is growing and improving at an exponential rate and that there is a high probability of machines eventually outperforming humans. In which way, this will go? Nobody knows. It is barely predictable, and we, as human beings can be excited about the future and the many innovations to come.

DRONE(Unmanned Aircraft Technology)

UAV(Unmanned Aerial Vehicle) or drone is new aircraft technology developed in this fast growing technical world. UAV has two parts, the drone itself and the control system. There are different types of drones like quadcopter, hexacopter, octacopter, but commonly used drone is quadcopter. Quadcopter is basically a aircraft vehicle used in automation for many purposes. There are many sections for developing quadcopter.



Design:

The most important thing in designing of quadcopter is the proper selection of motors and propellers. The motors and propellers are the drone technology, which move the drone into the air and to fly or hover in any direction. On a quadcopter, the motors and propellers work in pairs with 2 motors / propellers rotating in clockwise direction (CW Propellers) and 2 motors/propellers rotating in Counter Clockwise direction (CCW Propellers) to give proper thrust. The selection of propellers are based on motor ratings.

All the four motors and propellers which are required are of same ratings and size respectively. The speed of motors are controlled by ESC's(Electronic Speed Controller) which is main part of drone.

Controlling and Stabilization:

The controlling of drone is done by flight controller which is small circuit board mount on drone. The flight controller is the central brain of the drone. It includes inertial measurement unit (IMU) which consist of MPU sensor used for stabilization of drone. Yaw, Pitch and Roll are three dimensions in which drone is rotate. The IMU works by detecting the current rate of acceleration using one or more accelerometers.



The IMU detects changes in rotational attributes like yaw, pitch and roll using one or more gyroscopes. Some IMU include a magnetometer to assist with calibration against orientation drift.

The Gyroscope is a component of the IMU and the IMU is an essential component of the drones flight controller. Gyros stabilization technology give the drone its smooth flight capabilities. The gyroscope works almost instantly to the forces moving against the drone keeping it flying or hovering very smoothly. The gyroscope provides essential navigational information to the central flight controller.

Transmitter and Receiver

The radio transmitter(RT) consists of different modes used for controlling. The four main keys of controlling drone are Throttle, Yaw, Pitch and Roll. The RT is device that allows the pilot to control the aircraft wirelessly. The signal/commands from transmitter are then received by a radio receiver (RX) which is connected to a flight controller, and based on these signals flight controller controls the drone. Proper direction of antenna on radio transmitter gives long distance controlling.

The plane surface is required for calibration of drone. LED indicators are also used for simplicity. These are found at the front and the rear of the drone. Generally red and green led's are used. They are used to indicate front and rear side and also used to indicate the various status of the drone.



There are many advanced drones comes into aircraft technology. One of the most popular drone is DJI Phantom 3. This drone was very popular with professional aerial cinematographers. There are also highly advanced drones such as the DJI Mavic Mini, Mavic 2, Mavic Air, Phantom 4 Pro, Inspire 2 and 1 Walkera Voyager 5 have come to the aircraft technology.

The latest drones have dual Global Navigational Satellite Systems (GNSS) such as GPS and GLONASS, so that it can fly in both GNSS and non-satellite mode. The military drones have high performance cameras and highly accurate drone navigation system for SAR(-search & rescue) missions. There are some VTOL(Vertical Take-Off and Landing) drones also such as DJI Mavic Air and DJI spark. So Drone is a advanced aircraft vehicle in aircraft technology.

Reference Links: 1. <https://skilledflyer.com/how-to-build-a-drone/> k
2. <https://www.pwc.pl/en/drone-powered-solutions/Articles.html>

Name : Shubhankar .V. Markandeya (3rd year Electronics and Telecommunication)

My First Experience

The day I got letter of acceptance from the company for the internship I was on cloud nine. I applied at the company through the interview I had taken in 2017 one of the vice presidents of the Bharat Forge Mr. Suresh Supe. He at that time introduced me to the HR and Vice President of the company Mr. Santosh Bhawe. He asked me if he could do anything for me and my college then I let him know him that I wanted to work in a company like his and he gave me the opportunity to work there.

My work was basically mechanical oriented but I was working on the technologies that are very advanced. Like a through look to give I had to work on the machine data analysis, machine framework analysis, machine time analysis. Most of the machines were the forging machines and that of the moulders. So technically I had to learn mechanical syllabus along with the advanced technologies that I had to work on like python libraries, IoT in ThingWorx, Vuforia studio, Kepware server, node Js, angular Js, machine learning and neural networks. Along with these they gave me a training of 3D printing and the additive manufacturing. The internship was one of the best times of my life working and living in such environment is not a joke but yes it takes lots of efforts to frame yourself into it. The ethics, rules, behaviour, skills all you've to work on simultaneously.

At the starting they made me learn the ThingWorx and Kepware software that were the

basic platform they used for the data collection and display. The PTC University provided me with the training and the projects models that I had to learn. After I was done with this, they made me work on node Js for the backend of the KepServex for the login application. So, I learned node Js there and along with that they made me do angular Js also as I had to later work on the Vuforia studio for the AR VR modelling. In between I learnt python libraries like pandas, numpy, matplotlib, Keras, Tensorflow for the neural network building and processing. Then I got some interest in the 3D printing and my mentor led me to that. He gave me an opportunity to do the research and to design a model by additive manufacturing. This took me through a long and exciting journey and I learned so many core things related to mechanical field like the writing and understanding of G Code and M Code, the operation of 3D printer, got the opportunity to talk with the designing team of the company. Concurrently I was there with my mentor to examine the machine vibrations analysis project in which we were practicing to analyse the data set of vibrations we got from the forging presses and that of the furnace's temperatures, that time we were analysing the machine vibration from the hydraulic press which was forging the axle for the Mercedes Benz. Other clients of BFL include Daimler Chrysler, Toyota, BMW, General Motors, Volkswagen, Audi, Renault, Ford, Volvo, Caterpillar- Perkins, Iveco, Arvin Meritor, Detroit Diesel, Cummins, Dana corporation, Honda, Scania etc.

In my last days of the internship I worked on the AR VR modelling in Vuforia studio and there I developed a model of a turbocharger which we had to design for a jet engine of a fighter plane for the Indian Airforce. This demanded a lot of work and study along with the technical study I had to learn about the dynamics and kinematics of the jet engine and the working and functionality of the same. So, these were really the most tough days of my life where I had to work with the double power and motivation, and also in two totally different branches like core mechanical and augmented reality. At least I got the permission to visit the factory outlet which makes the engines for the jet fighter planes, helicopters, tanks, and fighter trucks that we see as a child in the republic day parade. Let me remind you that Bharat Forge is one of the customers who provides the defence material to not only to the Indian Defence Forces but also to Russia and France. I got to see all the defence manufacturing and productions that were there currently on going along with the tejas fighter plane's jet engine, the longest shooting artillery gun's testing which can shoot 155mm/52 Cal

which was DRDO's ATAGS(advance towered artillery gun systems), the bombshells that are used in attacks, missiles that are used as a part of defence's most integral system and much more.

My internship was a mixture of technology binded with the core concepts of the felids without which we may not be able to do anything like forging and manufacturing of defences and automobiles. In the last I would like to tell you all this was possible and started because of the college magazine INNOVENGERS only.

Upcycling Polyethylene Plastic Waste into Lubricant Oils

Plastics pervade almost every aspect of modern life, but once they have served their purpose, it's tough to get rid of them. That's because the polymers degrade very slowly in landfills or the environment, and recycling is inefficient. Now researchers reporting in ACS Central Science have developed a catalyst that can transform polyethylene -- the type of plastic used to make grocery bags and other packaging -- into high-quality liquid products, such as motor oils and waxes.

Hundreds of millions of plastic are produced worldwide each year, and the majority of these materials are discarded after a single use. Most end up in landfills or the environment. Because of this, even the plastic that is recycled typically generates materials of lower quality and value than the original polymer.



lions of tons of discarded worldwide the majority of discarded after a end up in landfills ment. Because of es, even the plastic recycled typically that are of lower

The researchers deposited platinum nanoparticles onto a strontium titanate support. The catalyst consists of platinum nanoparticles—just two nanometers in size—deposited onto a perovskite nanocubes, which are about 50-60 nanometers in size. The team chose perovskite because it is stable under the high temperatures and pressures and an exceptionally good material for energy conversion. At moderate pressure and temperature, this catalyst cleaved carbon-carbon bonds in polyethylene to produce high-quality liquid hydrocarbons. These liquids could be used as motor oil, lubricants or waxes, or further processed to make ingredients for detergents and cosmetics. The new catalyst preferentially bound and cleaved longer hydrocarbon chains, so that the products were all of a similar, intermediate size. In contrast, a commercially available catalyst generated lower-quality products with a broader size range and many short hydrocarbons, limiting the products' usefulness.

Deep Santosh Gupta

3rd year

Mechanical Engineering

17002014

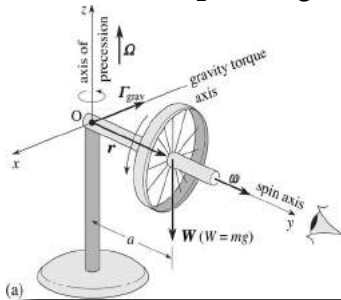
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Gyroscope and Gyroscopic Precession

Gyroscope has a spinning wheel whose axis of rotation is free to rotate by its own.

Gyroscope is used for measuring the angle of any 3d spaced object and to maintain its angular orientation to that angle.

When a spinning wheel is forced to change its angle of rotation,

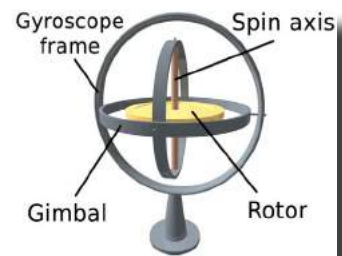


, the axis of rotation gets tilted in the direction accordingly, knowing its angle in space and its angular velocity.

Gyroscopic precession is change in orientation of axis of rotation in the plane perpendicular to the plane in which it is applied by couple called as gyroscopic couple.

In the image when the spinning wheel is suspended at a pivot point, it experiences a gravitational pull by its own weight. This leads to change its axis of rotation due to active gyroscopic couple and hence the axis gets spin in the top plane to conserve the angular momentum.

Gyroscopic precession is already used in balancing the aircrafts, marine ships, guiding the rockets and many other applications.



GyroX is a two wheeled car having a rotating disc powered by the engine of the car gets balanced by its own. It also changes its angle while taking the turn accordingly.



An electric scooter is made by the students of IIT Kharagpur which balances by its own and works on the same principle. Institute for dynamic system and control, ETH Zurich, Switzerland made a gyrocube which is able to balance on one of its corners and can jump over it. Reaction wheels mounted on three faces of the cube rotate at high angular velocity and then break suddenly, causing the cube to jump up. Once the cube has almost reached the corner stand up position, controlled motor torques are applied to make it balance on its

corner. In addition to balancing, the motor torque can also be used to achieve a controlled fall such that the cube can be commanded to fall in any arbitrary direction.

THE FUTURE WITH WITH QUANTUM COMPUTERS

Quantum computing is perhaps the most important discovery for the mankind in the 21st century. Back in the early days, when the power of computers was limited kilo-bytes of Ram and even supercomputers to some megaflops, speedy numerical computation was the distant dream. But during the cold war, the computational sector saw some drastic changes in terms of core architecture and power. The computers have played already a major role in helping man step foot on the moon.

Qubits are fundamental to quantum computing and are somewhat analogous to bits in a classical computer. Qubits can be in a 1 or 0 quantum state. But they can also be in a superposition of the 1 and 0 states. However, when qubits are measured the result is always either a 0 or a 1; the probabilities of the two outcomes depends on the quantum state they were in. This will increase their processing speed and improve the current multitasking methods.

With the introduction of quantum technology, the speed and execution are going to increase multifold. The concept of quantum computing is nothing new. In fact, it has been there for the last 15 years. Only now, some tangible results have been obtained by Seth Lloyd, the Professor at MIT who developed the first quantum computer and by some other interested organizations like Google and Intel.

Lower network latencies, rapid training of AI models, computer simulations and of course, faster computers is what we are looking forward to.



INTERVIEW - 4

Mr. Unmesh Wankhede

Director, Cessari Bonetti International Pvt
ltd

Mr. Unmesh Wankhede, Director, Cessari Bonetti International Pvt ltd

Current Residence: Igatpuri

Questionnaire:

1) As a director, which tasks are you expected to do?

Ans – My job is to define a vision for the organization, set goals for the organization, long term as well as short term, set system in the organization such that all these functions (Departments) report their efficiency of work, progress in the given task on day to day basis. Set review mechanism to verify department wise results are coming through and organization is on the right track.

2) What efforts does your company take to meet customer expectations?

Ans – In our organization, we don't compromise on the cost of the product or we don't sale our product at low cost. But we make sure that the delivery and quality of our product is unmatched. Our product is being used for years by the customer and the customer comes back to us because of the quality of the product. We constantly review our products' performance against customer requirement and expectations

3) What are your views on automation in this sector? What are the future goals?

Ans - We are into the business of valve manufacturing which is used by customers in their process plants. We provide manual as well as automated, both the products to customers. The choice is with the customer how much automation customer wants in his process plant. The scope for automation is huge.

Our goal is to sell more automation-related products and promote more actuated valves than the manual valves.

4) What was the most defining moment of your life?

Ans – The most defining moment of my life came after 6 to 7 years of my start of the career. I was doing a job at Electrolux Ltd. one of the multinationals in White goods. I was looking at the production of PU foaming department (Insulation for refrigerators – injected at high pressure in liquid form to get hardened PUF).

We used to have a lot of problems on our liner punching machine. There was huge rejection due to inconsistent process. We used to complain a lot about it to our plant head frequently that the service department does not attend it and fix the problem. One day, our plant head asked me a question- Are you not an engineer? Why can't you find a solution to the problem? The above questions changed my view of looking at the problem. Then I

have studied the problem and found a solution and fixed it in two days permanently. From that moment onwards I started looking at every problem as a personal challenge and got the confidence that if thought logically, everything can be solved. Today if I say I have achieved something in my professional career then it is due to change in approach and attitude at that moment.

5) How will you describe your professional journey from GCOEA to your current venture?

Ans – I got the message that at every level if you give your soul and heart for the work allotted to you, there are two benefits, one goes to the company with extraordinary achievement in results and the other goes to you in person as recognition and tremendous learning. This recognition and learning open up a new door for you in life in the form of new responsibility or better offer from another company or in many more ways.

6) Valve manufacturing requires years of experience in terms of designing, regulations, fluid dynamics, etc. How can freshers prepare themselves technically for this field?

Ans – It is not expected that Fresher should know everything. It depends on in which department you are going to work. Your work knowledge requirement is based on your area of interest. For freshers, there is always a training program after joining in any company. So you will be taught the required knowledge. But still, the knowledge of Fluid mechanics, design software, knowledge of manufacturing processes will be preferred during the interview for employment.

7) Which skills help to stand out in the professional world?

Ans- In the professional world you must know your capabilities, you must try to stretch beyond your capabilities. Once you get the success of stretching beyond your capability, you open up your mind to take any kind of challenge.

So if you have an attitude to take responsibility and take challenges you can succeed and stand out above others in the professional world.

8) What qualities should be inculcated in students to be technically sound?

Ans- What I could learn from my experience is that knowledge is available in Books, on Google and everywhere on fingertips, but the attitude to use it and application of simple logic is what is needed to use the same knowledge to give drastically different results in the professional career.

So to become technically sound you should know how to use the knowledge and for that simple logical thinking is important.

ARTS AESTHETICA

The Arts and Photography section of INNOVENGERS 2019-20

The name AESTHETICA gives you the desire for creative, artistic expression in an original way. You strive to be different and unique and have the self-confidence and perseverance to implement your ideas. Art is a way to put down our thoughts, views and creativity on paper in our unique way. Art is not just a word, but an emotion connected with the heart of every artist. Photography is an art of freezing time for a moment that captures all emotions in a single frame.

So to bring out the artworks of the talented artists in GCOEA, we started our journey in ARTS AESTHETICA i.e. the arts and photography section of INNOVENGERS. Here we present the amazing creations of our budding artists and photographers. It was an immense pleasure being a part of ARTS AESTHETICA.



JANHVI MASODKAR
EDITOR



MAYURI BHOWATE
CO-EDITOR

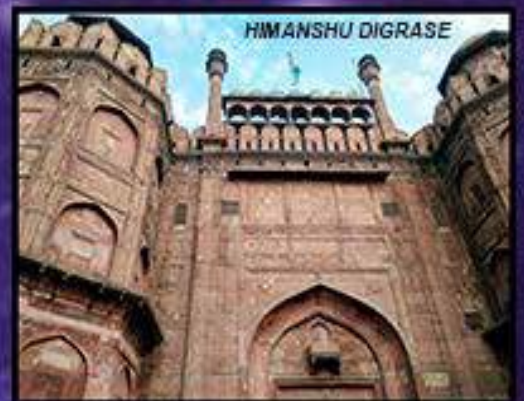
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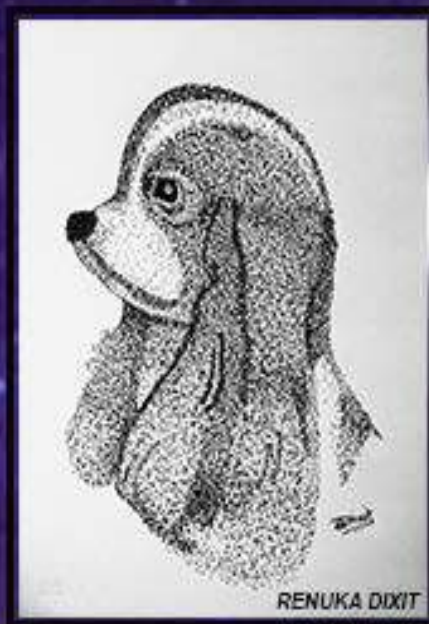


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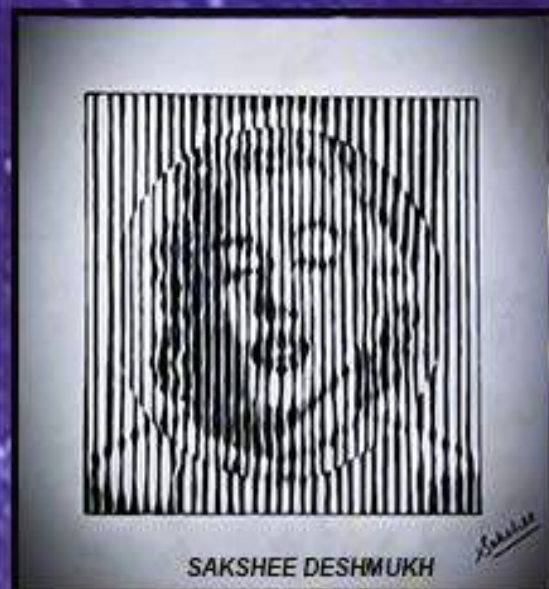


RADHA MAMIDWAR

PEN-ARTS



UNIQUE ARTS





INTERVIEW - 6

MISS. ANKITA NAVGHARE

ARTIST

**INDIAN BOOK OF RECORDS HOLDER-
LARGEST 3D ILLUSIONAL
PORTRAIT OF CHATRAPATI SHIVAJI
MAHARAJ USING 16,950 SCREWS**

1) Coming from an engineering background, from when did you start your journey in the field arts?

The college has given me good exposure to this field. In the first and second year, I used to give my artworks in the college magazine and other competitions. Then in the third year, I was the convener of the stage committee in Zenith. Many of the professors liked my idea and decoration of the stage. Then from that time, I am into this field.

2) Who encouraged you to become an artist i.e. choosing this field as your profession because this requires strong belief and affirmation from yourself?

My journey started after final year. Until then I was only interested in arts i.e. drawing, painting and sketching. In the final year, I was placed in Cognizant and I had one month time for joining the company. In that one month, I engaged myself completely in doing these activities. It was this time that I gave my first thought of choosing arts as a profession (and thus I rejected the company). This time was the turning point in my life and this was the time where I learnt to take risks.

3) What are the various artforms that you make and which one among them you like the most?

I am always open to all the different art forms. I do wall-paintings, mural art forms, abstract work, contemporary on paper and canvas both, 3D paintings. All are favourite but mostly I enjoy painting in acrylic medium on canvas. I also enjoy doing 3D art forms. They are time-consuming but are my favourite.

4) You are living in a rural area, so what are the difficulties the artists have to face in a rural area?

The rural area is not equipped with too many facilities. I face difficulty while making some art forms because the art material is not available there and if it is, then it is too costly. Most people suggested me to shift to Pune or Mumbai but the thing is if everyone keeps on moving to metro cities, there will be lack of knowledge, interest and awareness about arts at our native places. I took workshops for the artists to teach them and create awareness about different art forms. And also social media is a great platform to do such kind of works.

5) Do you think that the field of arts is lagging in India compared to other European countries?

I am going through this. The artworks have been overlooked. Various artists from the countries have different styles but the basic begins from home. The parents even don't support children. The Government provides a lot of platforms such as scholarships but the thing is that people even don't know about it. The fundamental hurdle is the structure of society. In other countries, the arts are appreciated and valued a lot. However, India needs to make a change in mindset.

6) Who inspires you or who is your role model?

I don't have any particular inspiration or guru. It is the collective effort, I meet different people. This helped me go deep inside the heart of people. As by travelling you get to know many things about people, their culture, lifestyles and values. Everyone inspires us in their way. I am a self-taught artist and being sensitive to yourself is a must.

7) Which values you have inculcated in yourself while pursuing your heart your passion i.e. art?

Whichever thing is in my mind I have to bring it on paper or canvas, that is the correspondence of thoughts and our hand is very important. NOT BEING SATISFIED, ALWAYS TRYING HARD, GIVING YOUR BEST, CONSISTENCY, PERFECTION is the main things. I have developed a lot of patience. Not to do what others are doing, do something which I like. TO BE YOU.

8) What are your achievements until now?

My 3D illusional portrait of Shivaji Maharaj has been nominated for India Book of Record. Kala Ratna The Pride of India as a young artist by Ex-Chief Minister of Goa. Star Icon of India Award for emerging artists. Samaj Ratna from the community. I have presented my artworks in exhibitions in Germany, London, Netherland. My painting is exhibited throughout India.

9) What message do you want to give to the students of GCOEA?

Follow your heart. We should not live our life like a machine which is assigned to do a fixed work. In such a process you are not creating yourself. CREATE YOURSELF. EXPLORE YOURSELF. Do what you love to do and go in the direction where your heart finds peace and satisfaction.



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MAGAZINE COMMITTEE



COLOR COAT HOLDERS



AVISHKAR COMMITTEE

DEPARTMENTAL PHOTOSHOOT



ROBOTECH FORUM



SAE BAJA



SAE TIFAN

DEPARTMENTAL PHOTOSHOOT



OFFICE



HOSTEL COMMITTEE



ZENIETH COMMITTEE

DEPARTMENTAL PHOTOSHOOT



ALUMINI COMMITTEE



PRAJWALAN COMMITTEE



CULTURAL CLUBS

COLOR COAT HOLDERS



SAARE FACHANG
1st yr CIVIL FOOTBALL



SUPRIYA SHENDE
2nd yr PG AVISHKAR



UDAY UIKEY
3rd yr Computer Science and Engineering
CHESS



VAIDEHI KHEDKAR
3RD yr CIVIL YOUTH FESTIVAL

EXTRA CURRICULAR



KSHITIJA MAYEE
GYMKHANA SECRETARY
LADY REPRESENTATIVE



SEJAL DAHIBHAT
JOINT GS GYMKHANA



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Member - English



Vidhi Bilgaye
Member - Hindi



Raj Thakare
Member - Marathi



Shruti Deshmukh
Member - Marathi



Akshita Kasorde
Member - Write GCOEA



Arya Gulkari
Member - Art & Photography



Piyush Kulmethe
Member - Art & Photography



Mayur Bhakare
Member - Newsletter



Aditi Walokar
Member - Newsletter



Mayuri Jasutkar
Member - Designing



Vaishnavi Devardekar
Member - Designing

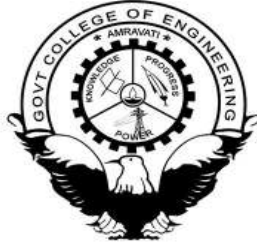


CAMPUS DRONE



JULY-APRIL
2019-2020
EDITION

Government College of Engineering, Amravati
(An Autonomous Institute of Government of Maharashtra)
“Towards Global Technological Excellence”



Government College Of Engineering,Amravati

(An Autonomous Institute of Government of Maharashtra)

"Towards Global Technological Excellence"



VISION

Towards Global Technological Excellence

MISSION

- Creating Human resource of global competence.
- Providing excellent academic and research environment.
- Striving for development through technology transfer.
- Inculcating the attitude of entrepreneurship.

BAJA SAE COLLEGIATE CLUB

Team GCOEA, from SAE Baja Collegiate club, had successfully cleared the virtual round for BAJA SAE-INDIA 2019-20 competition under the captaincy of Dharmraj R. Satav (3rd-year Mechanical Engineering) and Dr R M Metkar, Faculty Advisor held at Chitkara University on 13th of July, 2019. Out of the 282 participating teams, only 150 teams cleared the virtual round.

Our college team secured 90th rank on the national level. This was our 3rd year of participation. The judges appreciated the design proposition and also suggested some meaningful insights the BAJA SAE Series is an event for the undergraduate engineering students, organized globally by the Society

of Automotive Engineers, USA The BAJA SAE tasks the students to design, fabricate and validate a single-seater four-wheeled off-road vehicle to take part in series of events over a course of 3 days that test the vehicle for the sound engineering practices, the agility of the vehicle in terms of gradability, speed, acceleration and manoeuvrability characteristics and finally its ability to endure that back-breaking durability test. Currently, the club is busy in manufacturing the all-terrain vehicle. It will be completed by December's end, followed by design validation and actual track testing. The team will participate in the main events on 6th of March, 2020.



KARGIL VIJAY DIVAS

Every year, on 26 July, after the victory of Indian Armed forces in operation 'Vijay' against the infiltrating Pakistani troops, Kargil Vijay Diwas is celebrated to show the gratitude towards our real super-Heroes who sacrificed their lives for the nation. On the eve of Kargil Vijay Diwas, a Story Telling Competition was organised by NCC cell of GCOEA in Civil AV Hall. The topic for the competition was 'The Kargil War Heroes' which immensely helped for the youth to stay motivated. The students who participated in the competition gave

detailed information about the fighting spirit, patriotism and will of winning of the soldiers (Kargil War Heroes). The judging for this competition was done by Prof. K. N. Tayade, Prof. B. V. Wakode, Dr R. Rai. In this competition, the first prize was achieved by Cadet Shubham Rathod, final-year Instrumentation while Cadet Gauri Warkal, final-year Information Technology, got the second prize and the third prize was achieved by Cadet Rumit Gore, third-year computer science.



ITSA's PHOTOSHOP SESSION

An introductory session on the “Adobe Photoshop” was conducted by the ITSA (Information Technology Student Association) on 2nd August 2019. The type of the session was Visual aided interactive session the session which lasted for nearly 2 hours, the basic tools and functions were introduced, such as Rectangular Marque Tool (M), Move Tool (V), Lasso Tool (L), Sliced Tool (K), Quick selecting tool (W), Horizontal Type Tool (T), Hand Tool (T), Zoom Tool (Z) and many more. The introduction was followed by supervising the students while they implemented the above tools. The real world examples of where these tools can be used were also instructed.



Later, the concept of layering was introduced, about how different layers are used for creating beautiful custom images for developing posters, pamphlets, flexes, logos etc. The concept of creating background for a passport size photograph was explained and students were challenged to perform it on their own. The students came forward with their ideas and created really appreciable piece of work using Photoshop.

The instructors, Aniket Itankar (3rd year IT) and Aditi Linge (3rd year IT) demonstrated their previous works based on Adobe Photoshop. The proper guidance regarding more references for Photoshop was also provided. The doubt session was also held in the end.

TREE PLANTATION CAMPAIGN



Every human needs oxygen for his life and

Trees are the foremost source of oxygen as well trees help to reduce the level of CO_2 . As we all know that the whole world is facing the problem of global warming and to recover from such problem, planting the trees has become one of the most important need. The NSS Unit of Government College of Engineering, Amravati organized “Tree Plantation” programme under the National Service Scheme (NSS)

on Tuesday, 14th August 2019 in the college premises. It was attended by Pratik Malewar, NSS Programme Coordinator, and more than 100 student volunteers.

Under the Guidance of Prof. Bhagat, NSS Program Coordinator Pratik Malewar, NSS volunteers planted more than 50 trees. Each student took the responsibility to nourish and maintain the allocated plant. Eventually, the ground attained a glorious look. The committee decided to proceed with the same inspiration, enthusiasm and zeal to enhance the beauty of the college campus.

INDEPENDENCE DAY



It was a red-letter day in the history of India where the country got her freedom on August 15, 1947. It took hundreds of years for us to break the shackles of slavery. People of the country celebrate this festival every year with great pomp and show. The main program is celebrated at Red Fort in New Delhi. Besides that this festival is also celebrated in every city, town, school and college.

As per every year, this year too Independence Day was celebrated in the Govt.

College of Engineering, Amravati with lots of enthusiasm and excitement. Two pilots Cadet Rumit Gore and Cadet Jay Khandare received our respected Principal Dr. R. P. Borkar at his office at 7:40 AM. Then Commander Cadet Shubham Rathod took permission of Principal Sir to start the flag hoisting ceremony. Commander and Pilots along with Principal Sir proceeded towards the flag and at 7:45 AM, Principal Sir hoisted the Flag after which he inspected the Parade in which there were 7 cadets and 20 veteran soldiers of Indian Army of 8 Maharashtra NCC Battalion, Amravati. At the end Principal met everyone and wished all.



ORIENTATION PROGRAMME

AND PRINCIPAL ADDRESS



The Orientation Programme is designed to facilitate the academic, cultural and social adjustment of the first year commencing students. The day of 19th August this year will forever be engraved in the minds of the new members of our GCOEA family, the First Year B-Tech students. The Orientation Programme was held at Bhosle Hall and was meant for the 1st year B-Tech students who will continue their journey with GCOEA for next four years. The major objective of the programme was to make

the parents and students aware of the academic aspects of the course, the rules and regulation of the institute, various activities conducted, different technical and non-technical clubs and also ensuring parental participation in monitoring the performance and progress of the students.

The newcomers were welcomed by offering cards and sweets. The session commenced by welcoming all the respective dignitaries on the dais and performing the ritual of lightening the lamp and seeking the blessing of Goddess of Wisdom, Saraswati. The 1st year coordinator, Dr. D.A Zatale warmly welcomed all and along which a brief introduction about this prestigious institute was given.

Proceeding further in the session, the HOD's of all the seven departments gave brief description about their respective department. Then, Prof . V.M Jape Exam Coordinator well elucidated about the examination pattern. The Head of Training and Placement Cell, Prof M.M Deshmukh informed the students about the training and placements of our college. Later, the Chairperson of the Alumni Association, Mr. Kiran Pathurkar shared his words and added few more colours to the programme. After which Dr. A.I Dhatrak presented rules and regulation and the information regarding the Scholarship Section. Finally, it was the time that our Principal Dr. R.P. Borkar to address the students. He energized the students by his highly motivated speech strongly noting how should be the life of the student. His words touched everyone's heart and the students will carry the same 'Will of Fire' in their heart for rest of their life .

On this auspicious day, the opportunity was taken to felicitate the sparkling GEAMS of GCOEA Institute- the toppers of various departments and also the new GEAMS who were topper in their branch. The programme was concluded with the Vote of thanks.

INDUCTION PROGRAMME



The Induction Programme commenced on 20th August and the best gearing up added to the programme was by the session of Yoga. The session was carried out for four days. Mr Waiker, an expert in the field of Yoga well explained the importance of Yoga and various Asanas under it.

As today's urgent need of this era is communicating and hence all over demands us is to get fluency in our speaking skill and the only language highly in demand in English. The session

of improvement in the English language and speaking skill was conducted by Pinky Khandelwal. Then there was a spiritual session which was of 'Shatyog' and the team explained simple tricks to increase concentration and attain inner peace.

The session further carried was mainly focusing on the current situation going in our society and was taken by Shri. Bhushan Dalal, a great activist and a social worker. He made students aware and discussed the topics such as to the cause of the accident, its solution and remedies, a safety measure for girls and obeying traffic rules. Next comes the session of Mr Harshvardhan Palvat, who informed about various government schemes and made students acquainted about the useful app 'YuvaMahitiDoot'.

The students were connected and touched with their hearts in a very straightforward manner which was beautifully made possible by Dr Pankaj Wasadkar, who answered the question "Who you actually are?" and also focused on what matters is knowing oneself and inculcating positive vibes.

The further programme was carried out by Urvi Kheche, who is an advocate by profession and has received lots of awards at a very young age. She guided students almost about every law in a short period and also motivated to voice up for one's rights and to take stand against any injustice happening around.

Under the guidance of Mr Suhas Soni, the session was conducted involving the remedies and solution that one can take at the individual level to solve the problems relating the environmental problems. Ma-



for highlighting points of this session were water conservation plans, cleaning drainage system and using traditional methods for water storage.

The “DEESHA Eye and Organ Donation” carry a drive on a very huge level for Organ Donation and putting forward the message of ‘ Let others see through your eyes what you haven’t, so Donate Eyes’. The group awakened the students with their hard work for the underprivileged people and their motive made students awestruck.

Appreciating poems session was conducted by Dr D. J. Chaudhari in which he changed the view of students on the deep message of every line of the poem. Then the appreciation of Music session was conducted by Dr Madhukar Meshram, PhD in Music. He delighted the students with his sweet voice.

On the sixth day of the Induction Programme, the students were taken to the Tappovan, a mesmerising place with so pure ambience. The people living over there were attaining their livelihood by indulging themselves in small scale activities which strongly presented the real and actual situation of people in front of the students. Then the students were taken to HVPM, where they enjoyed and were jerked with the importance of sports in today’s world.

The session of Dr B.N Chaudhari made students acquainted with good and useful information regarding how and where should one explore oneself. He acknowledged the students regarding choices and options need to look after in life.

Dr Sunil Yawalikar conducted the session which had a pure essence of real arts and painting that has already been in our tradition since ages and the real gesture to feel proud of the greatest tradition that is none other than our Indian tradition.

The session enlightening the humanity and empathy in real life was taken by Gunjan Gole who put forward the real meaning of motherhood and made students realise that a helping hand can make one to live for few more days of his short life.

The final session of the Induction Programme was of Non-Violent Communication which made student learn good conversation habits, positive words while interacting and to learn what frontier wants to convey. The programme concluded with the Principal’s speech followed by some of the views taken from the first-year students.



GRADUATION CEREMONY



Graduation Ceremony of Tenth Batch was held on August 31, 2019 between 1.30 pm to 3.30 pm at Sangeet Surya Kesharao Bhosale Hall, VMV Campus. Hon. Er Sanjay Jadhao chaired the ceremony. Hon. Shri Sanjay S. Dhotre, Minister of State for Human Resource

Development and Information Technology, New Delhi was the Chief Guest. Hon. Dr. M. C. Chandekar, Vice-Chancellor, Sant Gadge Baba Amravati University, Amravati, Hon. Dr. H. R. Deshmukh Director, Board of Examination and Evaluation Sant Gadge Baba Amravati University, Amravati and Hon. Dr. D.V. Jadhav, Joint Director of Technical Education, Amravati Region, were guests of honour. Hon. Members of BoM, Principal Prof. R. P. Borkar, Deans, Programme Heads and CoE were amongst the other dignitaries on the dais. The candidates eligible for award of degree were announced by the respective programme heads. 458 UG students and 107 PG students were issued the Provisional Degree Certificates. 08 toppers of B. Tech. were awarded the institutes Gold Medal. 09 toppers of M. Tech. were awarded certificate of merit.

GANESH FESTIVAL



As per every year, the Ganapati festival was celebrated in Satpuda Boys Hostel, Sahyadri Boys hostel and Jijau Girls hostel with lots of excitement and enthusiasm from 2nd to 4th September 2019. It was the legacy of Satpuda boys hostel, which students continued this year and it'll be continued in future by the grace of Bappa. It was a three-day program which was conducted in Satpuda Boys hostel by all

the students of Satpuda and Sahyadri Boys Hostel. These programs were basically for the freshers (first-year students) which includes Elocution, Quiz competition, Special talent etc and were conducted in front of Bappa.

The students in the organizing committee worked very hard and decorated the stage under the guidance of all seniors despite so many problems and majorly contributed to the success of the festival. At last but not least, this program couldn't have been possible without the support of our Resp. Prof. Dr R. S. Dalu , Principal, Prof.S.Thorat , the warden of Satpuda Boys Hostel, Prof.R.M.Metkar , the Rector Satpuda & Sahyadri Boys hostel ,Prof.A.Londhe,warden of Jijau Hostel,with the support of Prof.S.S.Kumbhar and majorly because of the enthusiastic students of first to final year.

MEN BADMINTON

Inter College Badminton (Men) Tournament was being organised by the Directorate of Sports and Physical Education under Sant Gadge Baba University Amravati. Around 95 teams from different colleges participated in the tournament held at various zones from 4th September to 7th September 2019.

Our college got victory in the first match which was against the Shri Shivaji College Of Physical Education, Amravati by 21-12,21-15. The second match was against the Mahatma Jyotiba Fule MH. Amravati in which our team got the victory by 21-18,21-15. The third match was against Sipna College of Engg. and tech. , Amravati in which our team gave their best but could not snatch required victory for the team, and were defeated by 18-21,15-21.

Ram Bhala, Parishit Deshmukh, Yash Mahalle, Sumit Bawane, Tanmay Kale represented GCOEA.

The responsibility of the entire tournament was under Prof.Dr V.N Ghate, Prof H. S. Farkade, Badminton Secretary and Coach Ram Bhala and the representative of Gymkhana Shubhendu Halder.



WOMEN BADMINTON

Inter College Badminton (Women) Tournament was being organised by the Directorate of Sports and Physical Education under Sant Gadge Baba University Amravati. Around 95 teams from different colleges participated in the tournament held at various zones from 7th September to 10th September 2019.

Our college got victory in the first match which was against the Arts, Comm. And Science College, Amravati by 21-12,21-15. The second match was against the Sant Gadge Maharaj Mh. Walgaon in which our team get the victory by 21-10,21-15. The third match was against Degree College Of Physical Education, Amravati in which our team gave their best but could not snatch required victory for the team, and were defeated by 18-21,15-21.

Riddhi Jha, Shravani Jagtap, Ankita Muley, Komal Khirade, Rohini Thool represented GCOEA.

The responsibility of the entire tournament was under Prof.Dr V.N Ghate, Prof H. S. Farkade, Badminton Secretary and Coach Ram Bhala and the representative of Gymkhana Shubhendu Halder.

TEACHERS' DAY



Teachers' Day is celebrated across the country on 5th September. On the occasion of 131st birth anniversary of Dr. Sarvepalli Radhakrishnan, the Students of IT department organised a small programme at C2 classroom. The main organizers were 3rd-

year students. Faculties and students of 2nd and 3rd year were the key audiences. 1st Year students gifted special greeting card to each faculty. Mayur Madhekar from 3rd year gave a beautiful speech attributing the qualities of Professors. Prof K.N Tayade, Prof S.A Lohi, and Dr K.P Wagh enlightened the students with their experiences.

EESA team organised the programme at Seminar Hall in the Electrical Department. Faculties and the Students from all four years beautified the event. Beautiful Greetings were given and a small slideshow movie was also played. Hanmant Rasal from 4th year took an interactive session of faculty and students in which faculty answered the question asked by the students relating technical, non-technical, campus interview etc and enlighten them with their valuable words. This was followed by the speech of the Head of Department showing new ways and marking the importance of Education in student life. The programme was concluded with the National Anthem.

Instrumentation Department too has distinctly celebrated Teachers Day. The celebration commenced with the "Pratimapujan" followed by the felicitation of teachers by giving bouquet and pen as a token of love from students. Also, various games such as 'Dare by Chits' and 'Musical chair' were arranged by the students. Ashutosh Rai, Jay Khandare and Tushar Pathak expressed their gratitude towards teachers in English, Hindi and Marathi respectively. The whole atmosphere was filled with positive vibes by the motivational words of faculties. Refreshments were provided to every student and faculties. Tanusha Rawat gracefully concluded the event.

The programme of Teachers Day was also celebrated by 2nd-year students of Electronics and Telecommunication. The celebration started with felicitation of HOD followed by the teachers. Importance of Teacher's day and a poem was recited by the students. Then games such as throwing the ball in the bucket and also hand table tennis were arranged for the faculties. The programme came to an end with the great blessings and experience talk by the teachers.

All in all, it was an eventful day which was enjoyed by both teachers as well as the students.



KAVI KESHAVSUT KAVYA SPARDHA

On Wednesday ,11 September 2019 , like every year,a poetry competition 'Kavi keshavasut kavya Spardha' was organised by Post graduate Marathi section of Sant Gadge baba Amravati University at Sant Gadge baba Amravati University . This competition was organized for students from various colleges in five districts under Amravati University . Two students from every college participated in this competition.

Avanti Deshmukh from third year Computer Science and Engineering and Raj Thakre from second year Instrumentation Engineering represented our college.All Participated student's came up with poems on various topics and recited them with great zeal and enthusiasm . Students presented their poems in marathi language . In addition to curriculum , this competition was organised to expose latent qualities of students . This competition has encouraged the poet among the students . It was stepping stone for young students to develop their verbal skills and to boost their confidence . Student's enjoyed the beauty of expression , thoughts , feeling , rhyme , rhythm and music of words . First three winners were selected among all participants and honoured with trophy and certificates . All participated students were encouraged by giving certificates as a token of appreciation . Our college did not snatch any prizes but did their best.



BASKETBALL



Inter-Collegiate Basketball (Men) Tournament being organized by the Directorate of Sports and Physical Education at Sant Gadge Baba University, Amravati. Around 40 teams from different colleges participated in this tournament held in the various zone from 11th September to 13th September 2019. Our college got victory in the first match with Bhartiya Mahavidyalaya, Amravati by 28-34. The

second match with the Yuvashakti Arts and Commerce College, Amravati was easily won by Govt. College of Engineering, Amravati by 28-14. All students played well but in the match with Sipna College of Engineering and Technology, Amravati, we could not achieve what we deserve. Despite Lacking Basketball court in our college, the team practices regularly and performed well in the matches. Scoreboard indicated 38-18 at last and the victory was spelt from our hands. Yash Mahalle, Tushar Pathak, Aniket Sawant, Uddesh Shende, Rajat Fasate, Pranay Manware, Milin Bhade, Krushikesh Gawande, Prajwal Tayade, Ajinkya Hedau, Abhishek Selokar, Shreyash Raut represented GCOEA.

The responsibility of entire tournament was under Prof. Dr. M. L. Ghulhane, Basketball Secretary and Coach Yash Mahalle and majorly the tournament was successful because of enthusiastic and excited players.

TECHNOLOGY INNOVATION FORUM FOR AGRICULTURE NURTURING (TIFAN)



TIFAN, a club of our college students successfully qualified in Qualifying round of SAE TIFAN 2020. This year, the theme was to build a self-propelled onion harvester. It was conducted on 21st September 2019 at VIT Pune. 54 Teams from all over India participated in the competition. This was our second year of participation. Judges appreci-

ated the new system of Digging and suggested some ideas. The team was mentored and Guided by Neeraj Dubey from John Deere.

TIFAN is actually "Technological Innovation Forum for Agriculture and Nurturing". This year theme was to build self-propelled onion harvester. This competition has helped students to know CAD-Analysis software, manufacturing and practical application of academic.

After the declaration of result, the team is currently working on the fabrication of machine. The final round will be conducted in March at MPKV, Rahuri. This will be a field evaluation round. The onion harvester made by the team would be very helpful for the farmers to reduce harvesting cost.

Team Captain: Pratik Talokar (3rd Year Mechanical Engineering)

REPORT OF INTRODUCTORY SESSION

ART CLUB GCOEA



On 22nd September, an introductory session of Art Club was held in the garden in front of admin building. All new members of the club were introduced with the previous members, they were made aware about all the activities and events that club conducts throughout the year like weekend sessions to learn various art techniques, mini-exhibition in an alumni meet, art exhibition in Prajwalan and much more. Previous year's members showed their own artworks. All new members were very amazed knowing about the club's existence in technical college. All of them

seemed to be very eager to start the activities soon.

Every year, ART CLUB GCOEA invites new students from 1st year and other senior years to become the members of club and form a team for conducting all activities and events. This team then passes on the legacy of the club to next year's team. The selection criteria for members is very simple and open minded, there is neither any interview needed to be passed nor any past experience requirement, all you should have is creativity, enthusiasm and will to create some artwork and craft-work.

This year a WhatsApp message and a notice was circulated by the Student head of club, Sagar R. Katole, which led to more than 65 entries in just 2 days from all branches and years.

ART CLUB GCOEA which is a very well-known name in our college, whose identity is to develop the creative and artistic hidden talents of our students and to

showcase them in front of society through various activities like exhibitions, sessions and workshops, is again going to conduct its events this year too.



MEN'S FOOTBALL



Inter College football (Men) Tournament was being organised by the Directorate of Sports and Physical Education under Sant Gadge Baba University Amravati. Around 53 teams from the different colleges participated in the tournament held at various zones from 18th sept to 23rd sept 2019.

Our team is accumbent to its position ie. zone winner and University runnerup for the year 2019. An excellent team work results in any win. Our team has a great wall Kedo Nasi, a colourcoat athlete along with Pratik Kaprekar

, Beningso Tayang, Vishal Chauhan. Attack wins you a game but defence wins you the title and thus we earned the tittle. All senior players Nadeem Tagale, Beningso Tayang, Vishal urkude, Kedo Nasi, Aditya Shende were mainly responsible for our victory. They were very humble to Juniors and thus this helped to improve them comprehensively. They provided a positive ambiance for play which helped us to perform well.

Ashutosh Rai, Kedo Nasi, Beningso Tayang, Vishal Urkude, Sanket Madavi, Saare Fachang, Kipa Tapum, Kaustubh Thakre, Vishal Chauhan, Pratik Kaprekar, represented GCOEA.

The responsibility of the entire tournament was under Prof. A.M Shah, Football Secretary Mr. Ashutosh Rai and the representative of Gymkhana Mr. Shubhendu Halder.

MAJOR ABHISHEK DHOK

Career Counselling Seminar was arranged in the Government College of Engineering Amravati by the Student Council on 23rd September 2019, at Workshop Hall.

It was an excellent opportunity for the students to interact with Abhishek Dhok who was having expertise in the field of Army.

The main aim of the program was to guide the students to choose their career after Engineering who were keenly interested in serving the nation by enrolling themselves in the National Defence Camps such as Army, Air Force. He elucidated the students regarding the enrolment procedure of the Army and also with the tips and tricks to clear the entrance test for the same. He gave detailed information regarding the different stages of the entrance test and also described the importance of Army and what role it plays for the nation. It was a great interactive session between the Major and the Students in which all the doubts and queries of the students were well explained.

On this occasion Prof. M.V. Jape, Head of the Student Council was also there to encourage the students. At the end of the session felicitation of Major Abhishek Dhok was done by Prof. M.V. Jape and the program was concluded with the patriotic sound of Vande Mataram.



ELECTRICAL ENGINEERING STUDENT ASSOCIATION

EESA



EESA (Electrical Engineering Student Association) has been organizing various curricular and extra-curricular activities for the development of technical as well as the non-technical skills of the students. Scientific-calculator tutorial session was organized by EESA for the first-year students as they are not that much aware of engineering Scientific-calculator which is one of the most essential gadgets of engineers. Therefore 'scientific calculator' tutorial workshop was organized for them. In that workshop electrical first year, students not only got the basic idea about Scientific-calculator but also learnt the shortcuts of using Scientific-calculator which is quite important in academic and in competitive exams.

EESA had also organized Industrial visit this year on 4th October 2019 at 220kv Substation Power House Amravati for the 3rd year students of the electrical engineering department. The main aim of that visit was to enhance the practical knowledge of students about substation working. This visit was conducted under the guidance of Prof.R.B.Sharma sir. The students came to know about how the power is distributed in all the sub-areas of Amravati district through that visit.

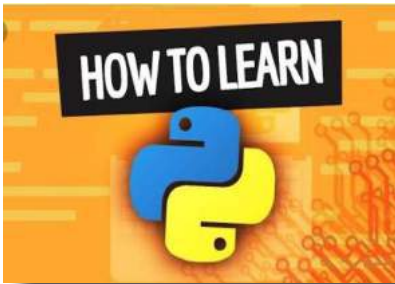
INTRODUCTORY SESSION OF ITSA's

An hour's session was conducted in L3 CLASSROOM on 29th September 2019 from 5:10 to 6:10 PM under ITSA for the students of 2nd year to brief them about what ITSA is. The conductors Mayur Madhekar, Gaurang Pateriya, Shweta Agrawal and Nihar Kanse gave the audience a complete understanding about ITSA, it's objectives and why it has started. The session was filled with humour among seniors and juniors. Various doubts and queries of the audience were cleared by the conductors. The conductors also shared their experiences which helped the audience to a great extent in understanding the motive and aim of ITSA.

They were introduced with the secretaries of ITSA i.e. Gaurang Pateriya and Mayur Madhekar, who enlightened the audiences by sharing their valuable insights that they obtained by working under and for ITSA.

Students were interested to become a member of ITSA, for which interviews were conducted for the selection of members. After conducting interviews, 5 members had been shortlisted and were taken as the members of ITSA.

INTRODUCTORY SESSION OF PYTHON



An introductory session on Python was organized for the students of 2nd year IT under ITSA in L3 CLASSROOM on 30 September 2019. The session was conducted by Mayur Madhekar from 3rd year and the session was mostly related with introducing python to the newbie's in programming. The session covered the basic concepts of Python

programming, Integrated Development Environment and Installing 3rd Party modules from command line.

After covering basics, an important application of Python was discussed in the session i.e. Web Scrapping. A real model of web scrapping build from scratch was introduced to the students which created enthusiasm among the students for learning Python language.

In the conclusion, Gaurang Pateriya from 3rd year shared his experience of building web scrappers and how he earned by making projects through it.

YOUTH FESTIVAL 2K19

12-10-2019



Youth festival 2019 is the cultural event organised by Sant Gadge Baba Amravati University. The event was held at Government Vidharbha Institute of Science and Humanities from 30th September to 03rd October 2019. A team of total 32 students participated in the various events such as Drama, Folk Dance, Folk Orchestra, Mime, Skit, One-act play, On-spot painting, Solo and Group Singing, Cartooning and various other.

The event was for four days which was commenced on 30th September and the same day the events of Collage Making and Classical Singing were held. On 1st October the program was further carried on with various events such as Folk Dance,

Solo Classical Dance, One-act play, Skit, Mime, Debate and Elocution, On Spot Painting and Poster Making. With full dedication and hard work, students performed well in particular events. On 2nd October, the events like Indian group singing, Sugam Sangeet, cartooning were conducted and our students successfully participated. On the fourth day of the Youth Festival, students participated in events like Western Solo, Percussion and Mimicry. Students showed their hard work, dedication, and perseverance and as a result, our college performed well in different events and won prizes in Western Instrument, Cartooning and Collage Making.



This event was a great success, because of the support and guidance of faculty In-charge Prof.N.N Khobragade, Prof.S.R.Wankhede, Prof. R.R.Harne and the event manager Mr.P.M.Hambarde and the great efforts of Cultural Activities Secretary Mr.Abid Khan Yakub Khan Pathan.



ITSA'S PLACEMENT PREPARATION SESSION



ITSA (Information Technology Student Association) Conducted a session in L3 Classroom on 1st of October 2019 just for Juniors by final year seniors to tell about their Placement Experience and how they Prepared for campus placement. Firstly Sangam Pandey started the session by his story about his placement preparation, how he was selected for Prati and TCS Ninja. Then Adarsh Basantwani told his off-campus Technical Interview day story which gave insight to students about the actual interview.

Then Sonam Matani shared her placement preparation hacks with junior. Chetana Ganatra told a lot about competitive coding platforms such as HackerRank, CodeChef, HackerEarth, and leetcode.

Then Kartik Lahoti who grabbed four offers with maximum package gave a path to conquer placement drive and juniors took as much information as they can take. He also cleared all the doubts of students. Students gave positive feedback and they learned a lot in the session.

CRICKET REPORT(MEN)



Inter-Collegiate Cricket (Men) Tournament

being organized by the Directorate of Sports and Physical Education at Sant Gadge Baba University, Amravati. Around 53 teams from different colleges participated in this tournament held in the various zone from 2nd October to 3rd October 2019.

Our college got victory in the first match with Government College of Pharmacy by 145 runs. The Excellent batting performance of 89 runs was by the senior batsman Kshitij Dasarwar and everyone played well but in the second match P.R.Pote College of Engineering and Management, Amravati won by 6 wickets.

Somnath Chate, Munish Singh, Kshitij Dasarwar, Sudarshan Solanke, Pranav Patekar, Ashutosh Rai, Vibhas Thakare, Panav Pawar, Kapil Agrawal, Satwik Mangrole, Vishnu-das Jadhav, Suyash Ingole, Gauang Deshpande, Farhan Khan, Pranav Thakare represented GCOEA.

THE ROBO-TECH FORUM



Creative and innovative brains of our super seniors set up the technical forum in the year 2013 with vision to empower the practical and technical knowledge of engineering principles. This ROBO TECH FORUM (RTF), one among the very few technical groups of college, is a gathering of students of not only a specific branch but from all branches who are interested in learning about and working with robots. Here, students put their time, efforts, and garnish it with lots of intelligence which results in a technically successful and a working robot.

Why RTF????? The answer is, from fuelling students' passions of learning to participating in a sport where everyone can turn professional, and more. For the students of first year as well as second year RTF conducted some workshops on Mechatronics and PCB designing. Currently Robo-Tech Forum of GCoEA is preparing robot to participate in ABU ROBCON 2020.

Objectives

- 1.Participating in various technical events and competitions.
- 2.Conducting workshops for juniors on basics of robotics.
- 3.Sharing of technical knowledge among students from first to final year from all branches.
- 4.Build and program robots for competitions.
- 5.Strengthening of skills such as creativity, problem solving, team management, leadership, etc.



YONO COLLEGE FESTIVAL



Yono-college Festival was arranged in the Government College of Engineering Amravati by Student Council in collaboration with State Bank of India (SBI) on 10 October 2019, at Civil AV hall.

Due to the rate of increase in the number of frauds in the current world, Student council in collaboration with SBI conducted an awareness session elucidating the precautions to be taken while doing online transactions and also the promotion of the YONO app launched by SBI. This session was conducted by Mr.Abhishek Vyas, Manager, SBI. Along with him, Mr.Mukesh Dalal, Chief Manager, SBI and Mrs.Niyati Kolte, Digital Officer, SBI were also present. On this occasion, Prof.M.V.Jape, Head of Student Council was also there to encourage the students.

Refreshments were given to the students and at the end of the program, felicitation of the guests was done by Prof.M.V.Jape and other Council members and at last, the program was concluded with Vote of Thanks given by Mr.Sarthak Shrivastava, 4th year, Mechanical Engineering.



I.E REPORT

Government College of Engineering Amravati

Department of Electrical Engineering

INSTITUTION OF ENGINEERS 2019-20

Institution of Engineers (IE) is a student association which organize several academic-related activities for students of all the departments. It includes activities such as seminar, technical-workshop, industrial-visit, expert lectures and competitions.

EVENTS REPORT

The first event was the Expert Lecture on Mechanical Design of Transmission Line and 220KV substation. It was held on 11th October 2019 from 03:00 PM-

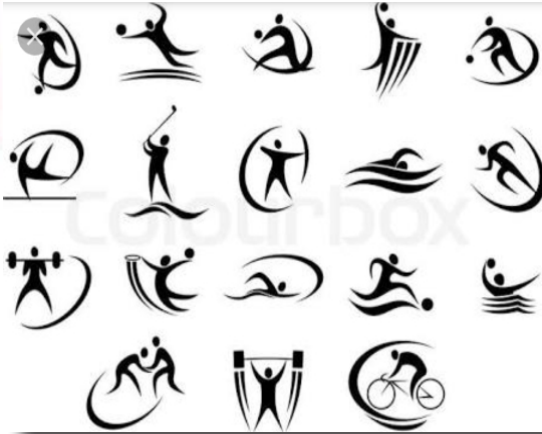


05:00 PM in the Electrical Engineering Department. Er. Vishal Ingle facilitated lecture in the presence of Dr G.M. Dhomne and Dr R.B. Sharma. The expert lecture started with the felicitation of dignitaries. The facilitator guided students regarding the design of the transmission line and the equipment installed

at the substation. He also explained the importance of mechanical construction of the transmission towers, cables, insulators according to the design parameters. The lecture terminated with an enthusiastic interaction between students and facilitator and vote of thanks by Ashish S. Sushir(Co-Convener IE), showing deep gratitude towards the facilitator and the staff in charge.

The second event conducted was MATLAB workshop on 18th & 19th October 2019 in Electrical AV Hall. Dr P.P. Bedekar guided regarding MATLAB to 2nd-year students. The event started with felicitation of Dr Bedekar sir by Ms Asheena Tanvi(-Convener IE). He taught various use of MATLAB and its uses in various sectors. MATLAB coding, simulation, image processing, digital signal processing were explained. The session was entirely interactive between the facilitator and the students. Students were overwhelmed as they were acquainted with programming on MATLAB. The session was ended with an objective test on MATLAB and vote of thanks by Ashish M. Yadav(Student co-ordinator IE), showing deep gratitude towards the facilitator and the staff in charge.

ATHLETICS REPORT



The Inter-collegiate Athletics event was organized by the Degree College of technical education, Amravati at Sant Gadge Baba Amravati University. It was a three days event which was conducted from 10 October 2019 to 12 Oct 2019 in which around 5 districts participated in the event. Out of which, there were 4 participants from our college Ashutosh Rai, Swapnil Chide, Darshan Tihale, Pratik Kaprekar participated in the event 4*100 meters Relay and due to their hard work and perseverance, this team was in the finals, but couldn't achieve success.

It was the privileged opportunity for all the participants to represent our college on the university level in finals. This event was possible due to guidance of Prof.P.P.Gajbhiye, Staff In-charge and with the tremendous efforts of Athletics Secretary, Miss.Avantika M. Bahakar. Also major support from our Gymkhana Secretary Mr.Shubendu Haldar and Lady Representative Miss.Kshitija Mayee.

JYOT-FRAMED FOR ENLIGHTMENT



Foundation of Jyot is to engross on the basic hurdles faced by the under-privileged students and to fulfil their educational necessities for which the members of Jyot have taken certain initiatives . The foremost initiative taken was Donation of Clothes at Melghat on 12th January 2019. In order to add colours to the faces of children the members of the forum have donated certain

amount to the orphanage through self earning on 19th Feb 2019.

So as per the decided aim of the forum members of Jyot had conducted test on 10th October and accordingly selected the students of 1st year for the interview on 11th October . The students who fulfilled the required criteria were provided with the notes . These notes were arranged by the seniors from the fund collected among them and also through the exam fee and the distribution of same was on 19th October.

In order to experience a unique side of Diwali celebration on 2nd November the forum decided to lighten a small candle in the life of children of the orphanage, for which the members of Jyot specially the 4th year students arranged Diwali sweets and delicacies for the little champs. The significant part of the event was celebration of Bhaubij with the preety angles.



CHESS AND TABLE TENNIS REPORT



Inter collegiate Chess (Men and Women)

Trials were organised by the Directorate of Sports and Physical Education under the Sant Gadge Baba University, Amravati. Around 100 Students from different colleges participated for the selection of West zone inter University Tournament from 23-10-2019 to 25-10-2019 at Smt. Kesharbai Lahoti Mahavidyalaya, Amravati.

Samkeet Sangai, Uday Uikey and Srushti Sadafale represented the Men's and Women's Team respectively

Uday Uikey got selected in trials with the score of 7/9 and placed 5th rank in University. He also had the chance of Coaching Camp at Smt. Kesharbai Lahoti Mahavidyalaya, Amravati from 31-10-2019 to 07-11-2019. He represented Sant Gadge Baba University, Amravati Team in West Zone Inter University Tournament at Poornima University Jaipur (Rajasthan) from 10-11-2019 to 12-11-2019.

Inter collegiate Table Tennis (Women) trials were organised by the Directorate of Sports and Physical Education under the Sant Gadge Baba University, Amravati. Around 30 Students from different colleges participated for the selection trials of West

zone inter University Tournament from 03-09-2019 to 05-09-2019 at Vidyabharti Mahavidyalaya, Amravati. Sakshi Chede represented our College.

The responsibility of the entire event was under Prof. Dr.V.N.Ghate(Vice - President), Prof.P.M.Chouragade (Staff-Incharge), Atharv Jakate (Indoor game Secretary) and representative of Gymkhana Shubhendu Halder.



CONSTITUTION DAY



Constitution Day also known as Sanvidhan Diwas was celebrated on 26 November at Government college of Engg. Amravati. This remarkable day is celebrated across the country to mark the adoption of the Indian Constitution by our Constituent Assembly in 1949, which came into force on 26th January 1950 marking the new era in the history of Indian Republic.

On this occasion Dr. Pradip Aaglawe was honorable chief guest accompanied by our Respected Principal Dr. R. P Borkar along with Prof.A.S.Shindekar and Prof.R.H.Sarda. Dr. Pradip Aaglawe delivered an admirable speech which justified the prominence of our Constitution. He well explained the Fundamental Rights and our duties towards the Nation, also the ways to achieve socio-economic goals and to stand up for our Rights. He also gave

information about Simen Commission Act. With his admirable words he let us remember the Father of Constitution Dr. B. R Ambedkar his contribution and sacrifices.

The Program came to an end with the Vote of Thanks by Shubhendu Haldar followed with the loud burst of Jai Hind.

Cricket Report (Women)



Inter-Collegiate Cricket (Women) Tournament was organized by the Directorate of Sports and Physical Education at Sant Gadge Baba University, Amravati. Around 53 teams from different colleges participated in this tournament held in the various zone from 28 November 2019 to 03 December 2019.

Our college got victory in the first match with Shivaji Physical Education and second victory with Brijlal Biyani Science College by

33 runs, everyone played well but in the third match with Hanumam Vyayam Prasarak Mandal, Amravati (HVPM) the opponent team won by 10 wickets.

Ms. Shamal Urkade, Ms. Vaishnavi Lende, Ms. Kshitija Mayee, Ms. Priyanka Meskar, Ms. Komal Pardhe, Ms. Anuja Alkari, Ms. Bhavana Doifode, Ms. Sejal Kadamdhad, Ms. Yamini Khode, Ms. Mitalee Manware, Ms. Nidhi Kagliwal, Ms. Swati Pise, Ms. Raksha Jogi, Ms. Gauri Wanode, Ms. Pooja Reddy, Ms. Sanyogita Deshmukh represented GCOEA.

The responsibility of the entire tournament was under Prof. Dr. V.N. Ghate, Prof. S.P. Tak and Prof. R.V. Mante, Cricket Secretary and Coach Somnath Chate.

KAJAL BHARANI VISIT



It was a proud moment to have with us a pass out student from the Information technology branch of our college in the year 2018 who have achieved a great success in her life. She was none other than Ms. Kajal Bharani. She has recently completed her officer training at Indian Naval Academy, Ezimala, Kerala and is commissioned into the Indian Navy as Sub-Lieutenant in November 2019. She is our first Girl student to join the Indian Navy as an officer.

It was the intended pleasure for our Hon. Principal Dr. R.P. Borkar to felicitate an Indian Navy officer and a student along with Prof. S.A. Lohi and other faculties. After that, it was one of the biggest achievements for our Prestigious Annual College Magazine INNOVENGERS 2019-20 too to have the interview of Ms. Kajal Bharani in English section. The interview was taken by Mr. Tushar Pathak, Magazine Secretary, Ms. Sakshi Mohod, Editor, English Section and the team. NCC Cell of GCOEA also arranged a small felicitation program under the guidance of Prof. S.A. Lohi with the help of Mr. Jay Khnadare, NCC Secretary, in workshop hall. She guided all the present students regarding the future scope of NCC, the exams and study plans for those who are preparing for the competitive exams like NDA and all. The program was concluded by giving the vote of thanks.

TCS SESSION



Venue: Workshop hall

20 Dec: A CONNECT session by the Tata Consultancy Services Talent Acquisition Group (TCS-TAG) Pune in association with the student's council of GCOEA, was organized for the third-year students who were going to apply for the campus placements along with the final year students who hadn't apply for the placements. This session was conducted in two categories, individually for the final and third year so that each group of students

can perfectly be guided by them based on their requirement.

The first session for the final year students was conducted in the Civil AV hall at 10:30 AM while the second session was conducted in the workshop hall especially for the third-year students who are going to sit in the campus recruitment placements and also for final year students who hadn't apply for any of the company. The session was conducted in two phases. The first part of the session contains the introductory part which includes the presentation (Informative) part contains all the information about the TCS company as well as the Campus recruitment process. The speaker told the students for the skills that actually the company demands and which should always be there in the students of engineering while applying for the campus recruitment processes. The second session was a questionnaire type session in which they had given some of the questions of aptitude and asked to solve them within a given interval of time. The right approach also is given by them along with the solutions.

The whole session was concluded by the vote of thanks given by Prof.M.V.Jape and the whole program was successfully monitored by all the CRs under the guidance of University Representative Mohd. Ahfaz Lateef Abdul Nasir.

Art Club Seminar

A Guidance and talk session was organized by Art Club GCOEA on December 21, 2019 in Civil Engg. Dept. on the topic "How to prepare and crack NID entrance exam, CEED and pursue career in designing field. Mr. Sanket Wakode and Mr. Vaibhav Lothe were the guides in session. Mr. Sanket Wakode is pursuing Master of designing (M. Des.) from IIT Guwahati in Graphical Designing, he is alumnus of our college from 2016 batch graduated from ENTC Dept. . He is placed in Zilingo, a Singapore based Fashion and Clothing Company. Mr. Vaibhav Lothe is pursuing Master of designing (M.Des.) from IIIT Jabalpur in Automotive Designing, he is alumnus of G.H.Raisoni, Nagpur from 2015 batch graduated from Computer Science Dept.. He is now working for 2 startups related with bus and electric scooter design in Pune academy.

Art Club GCOEA has many creative and artistic student members from the college. Many of them are interested in pursuing post-graduation in designing and to pursue career in it. Some of the students in final year are preparing for upcoming NID entrance and CEED 2020. So, for the sake of their passion and dreams, art club organized the guidance and talk session in which various topics were discussed and talked about.



Mr. Vaibhav showed his own portfolio and some project works that he presented during his admission in IIIT. He shared about- his own journey right from his childhood, how he developed creativity, how he converted his hobby into passion, how he self-prepared along with job, how he stayed focused, various sources like websites, YouTube channels, blogs, books, WhatsApp groups he used during preparation. Mr. Sanket, on the other hand, shared his experience in IIT, his own journey, passion and interests, he enlightened students about Prof. Sudhakar Nadkarni, who played important role to evolve design

education in IITs. He also guided about exam patterns, seat availabilities in colleges, selection criteria and showed his photos with the field experts like Mr. Saurabh Singh, (Head of design, Maruti India), Mr. Abhishek Singh (Head of design, Honda India), etc..

After the presentation, Mr. Vaibhav showed the demonstration of how to draw the super-car design. Later a WhatsApp group was formed with all CEED and NID aspirants in college, guides, their colleagues and batch mates to interact with aspirants directly. All of them shared various sources for preparation like sample portfolios, Google drive links (mentioned below) containing pdf books, previous question papers, answer keys, blogs, etc..

At the end, Vote of Thanks was given by Mr. Soham Butley, he thanked both guides for taking time from their busy schedules and for their wisdom words to students, then he thanked all students who attended the session and listened to guides patiently, and finally thanked Mr. Sagar Katole , student of final year Civil Engg. Dept, Art Club Student Head for arranging such valuable session.



SELF-DEFENCE WORKSHOP



A Self defence Workshop was conducted in the institute by the Women's Grievance Cell under the guidance of Prof. M. V. Jape, Dean - Students Welfare Cell. Every year two such workshops are conducted for the girls of the institute so that each and every girl becomes capable of protecting herself and others from the evils in the society. The workshop was conducted in the collaboration of College of Engineering Pune, Zest 2019, on 24th of

December 2019, in the New Girls Hostel, Government College of Engineering, Amravati. The workshop was conducted for three hours in two sections between 7:00 am and 10:00 am. The first hour was dedicated for the Health Guidance, which was conducted by Dr. Anuradha Tote, an Ophthalmologist, and a life guide. She gave the information regarding the necessity of maintaining a healthy body by the means of a balance between physical and mental health. During the second half the self defence techniques were taught to the students which would help them in any threatening situation. The self defence techniques were taught by Mr. Mahavir who is a martial arts trainer and a self defence specialist. This workshop was conducted for the girls from 2nd year to 4th year girls. Around 108 girls were present for the workshop. The workshop was very fruitful and it received a very overwhelming response. The students welfare cell aims at conducting many such workshops and programs for empowering the girls and make them capable of standing for themselves.

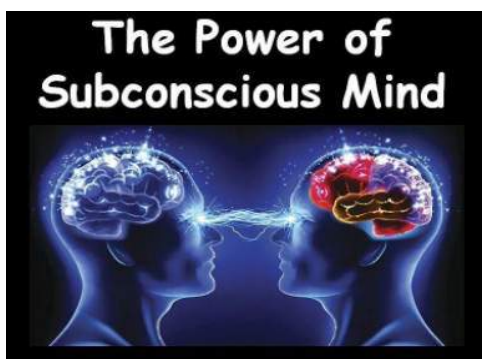


JIAU JAYANTI CELEBRATION IN GCOEA



On the earth, one of the most important days of all times for the freedom of the Hindu religion is 12 Jan as it is the birth anniversary of Rajmata Jijau. She was the mother of the great king Chhatrapati Shivaji Maharaj. All over the world, this day is celebrated and was celebrated in GCOEA too; the birth anniversary of Rajmata Jijau was celebrated very enthusiastically. In the presence of Hon. Principal Dr.R.P.Borkar, teachers and other staffs along with the secretaries of Gymkhana council, the idol worship of Rajmata Jijau was done by Hon. Principal Dr.R.P.Borkar. with Ms.Kshitija Mayee, Gymkhana Secretary, dedicated an excellent poem on Rajmata Jijau as a salute, along with the vote of thanks just after the small guidance and gratitude speech of Hon. Principal Dr.R.P.Borkar.

PROGRAM ON SUB-CONCIOUS MIND THROUGH PRACTICLE HYPNOSIS

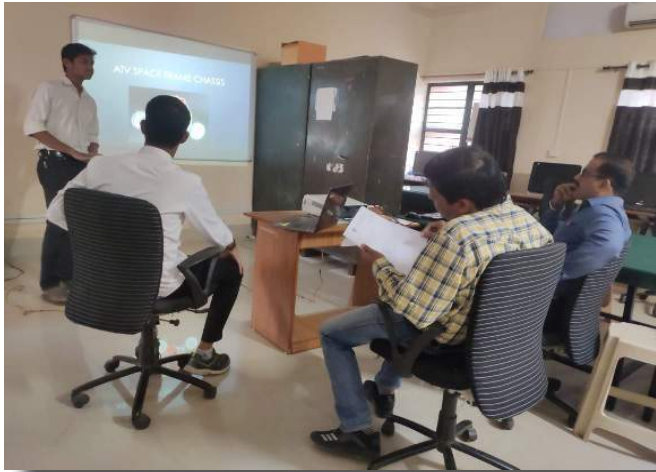


On January 13 the UR Council of Government college of Engineering, Amravati had organized a workshop on Sub-Conscious mind through practical hypnosis by HYPNOTHERAPY. Today in the whole world, people from all domains like professionals, sportspersons, healers, therapists, counselors are using Hypnosis to create the desired results in their lives.

The session was conducted by Mr.Prasheek N. Gaikwad, C.M.D at Lessons of Life, Hypnotist, and Motivational

Speaker & Life Coach. Mr.Prasheek Gaikwad has trained 1,50,000 plus students on Personality Development, Confidence and Concentration Development and Memory Techniques as well as he has trained more than 1000 Principals, Teachers & Lectures on Successful Parenting. He has been also invited as guest faculty in YASHADA, CTI, CPR, RAMETI, MITCON, Many Govt. Departments, Semi Govt. Offices, and NGOs. The practical experience was taken by the students of the institute and faculties too, also appreciated the techniques. The program was successfully managed by all the UR Council members under the guidance Prof.M.V.Jape and Mohm.Ahfaz Naseer, University Representative.

PAPER PRESENTATION BY SAE



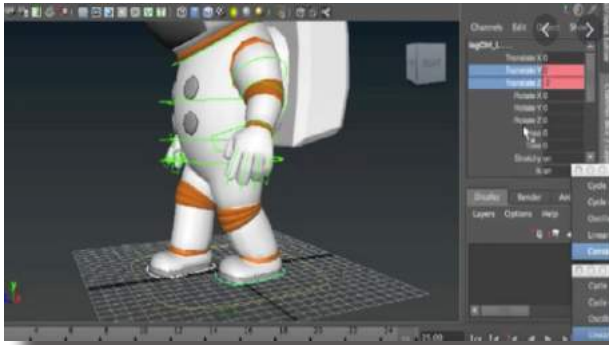
SAE-BAJA Collegiate Club of GCOEA is the technical club of mechanical engineering department. This year under the student convention technical paper presentation competition was held. The objective to organise the competition was to showcase the students' technical ability and to motivate students to take up automotive science as career. The members of SAE BAJA club of GCOEA. Miss. Sakshi P. Chede and Mr. Junaid Shaikh, readily took up the initiative to organise the technical

paper presentation. At college level, the competition was held on 28th January, 2020. The event hosted number of participants of mechanical department, Prof. Kapoor and Prof. R.M. Metkar were the judges of the competition. The event commenced at 5p.m. in Cad Lab, after the felicitation of the judges. It was indeed a sea of brilliance, as participants after one another came forward armed with incredible original prototypes, research papers and advancements. Fielding question after question by the judges, the participants displayed their undying thirst for knowledge, whilst showcasing their immense interest and the astonishing amount of effort and research put into each of their individual presentation.

At last, Fair decision was taken by the judges and winner was announced. The event was a roaring success. SAE BAJA Club looks forward to host such events in future and providing a platform for students to showcase their knowledge and improve their presentation skills.



MODELLING AND ANIMATION



Modelling and Animation Competition

was organized by the members of SAE BAJA Collegiate Club of GCOEA. The main objective to organize the competition was to showcase the students designing ability. Miss. Vaishnavi Talan , Mr. Vaibhav Jaybhaye, Mr. Ajinkya Patare arranged the competition on 18th January 2020 at CAD Lab in EXTC De-

partment. Number of Students from the 1st and 2nd year Mechanical Engineering interestingly participated. The organizers provided the topics on the time and the students have to choose one of them. The event took place successfully. It was indeed a sea of brilliance SAE BAJA will again organize such competition to encourage students.

WELDING COMPETITION



SAE BAJA collegiate club of GCOEA organised welding competition on 19th January 2019. The venue of the competition was workshop. The main motive to organize the competition was to understand the concept of welding. Only the members of SAE BAJA were allowed to participate. The competition exactly at 11:00 am. The team had to weld a lap, but, corner and T-shirt joint with the given rectangular plate of mild

steel. Mr. Kaushik Gautam and Mr. Prathamesh Akulwar readily took the initiative to organize whole event. The students showcased their interest toward welding. SAE BAJA encourages students not only for theoretical knowledge but also for practical one.

JYOT(Teaching, grandparents meet, cloth collections)



While living human life, there should be a goal of human life beyond fulfilling the needs of food, clothing and shelter. Man is a social animal; So while working in the society, we also have to give something to the society. The "JYOT" was created out of the same longing for orphans, the needy and the poor. As the name implies, it is a flame that illuminates the progress of life in the darkness of society!

On 5th September 2017, i.e. on the precious occasion of Teacher's Day, some like-minded youth ignited the flame of hope. Since then, 'Jyot' has been inspiring many through its socially useful activities through continuous innovative initiatives. Like every year, this year too, under the innovative initiative "Shikshan Jyot", free books and notes were distributed to the needy and budding students of the college on 20th October. The continuous work of providing educational materials of the required subjects to the first year students is in progress. This year, on the occasion of Independence Day, a tree planting program was organized on 15th August. It was not possible for the students who wanted to get admission in the college in the academic year 2019-20 session to pay the college fee due to lack of money. Financial assistance was provided to the concerned students through 'Jyot' by collecting subscriptions from the public. Diwali is a festival of joy, excitement and vibrancy celebrated by all with their families; But the students in the orphanage are deprived of this joy. So for those students, the members of 'Jyot' spent time with them, bringing faral and sweets. On that occasion, Jyot members tied rakhi with the girls of the orphanage and celebrated bhaub-ij.

After that, the concept of distributing clothes in remote villages of Melghat was implemented with the intention of starting the new year in a unique way. Jyot's members collected cuts from college students, teachers and non-teaching staff, as well as locals. The clothes were distributed on January 18 in Raksha, Chopan and Kopmar villages of Melghat region. In the month of February, on the day of 'Valentine's Day', the members of Jyot carried out a unique event and took 35 old people from the old age home to the cinema to see the movie 'Pravas' based on the second stage of their lives. In a few days, on the auspicious occasion of Shiv Jayanti, the youth of Jyot helped to overcome the difficulties of the needy students through Swakmai without wasting money on dholtasaya and DJ. Also, on this occasion, they went to the nearby school of Divyang students and imparted training in dance, music, painting and computer for a week. In the Shiv Jayanti program, these students performed dance and music.

Thus even before this many activities were carried out through Jyot. And this is a continuation of social service. The fact that students are coming together and doing social work beyond all caste, religion, creed and language is a symbol of India's future.

In short, Jyot is not just an organization, it is a concept - of social service, of prosperity, of creative ideas ... of building an engineer who builds a bridge of love that connects man to man!

GATE MOCK TEST BY ACE ACADEMY



A Mock Test for GATE Aspirants of GCOE, Amravati

was conducted on 21st January 2020 by UR Council under the guidance of Dr. M. V. Jape, Dean – Student Welfare and Prof. M. M. Deshmukh, Dean – T&P and III. This was the first time when student got an exposure of GATE Test window along with different features of that GATE window. This test was conducted in collaboration with ACE Academy in different labs of CSE Department, Government College of Engineering, Amravati. The Mock Test was conducted in two different slots between college hours. In first

slot students from Mechanical Engineering and Electronics and Telecommunication Engineering gave test from 10:30am to 1:30pm while in second slot students from Civil Engineering, Electrical Engineering, Computer Science and Engineering, Instrumentation Engineering and Information Technology gave test. Students from 2019 Batch and 2020 Batch along with some students from 2021 Batch of EXTC Engg were part of this test. 150+ students from all discipline gave this test. Representatives from ACE Academy were present for assisting students facing any technical issue during test. The level of test was set as per the level of GATE. Students got their result along with subject wise and question wise analysis of test which helps them to prepare accordingly for main GATE Test. Result of each student is shared with college as well as students along with analysis of their test. The feedback from students was overwhelming. The UR Council aims at conducting such activity for enhancing the students knowledge and providing them a platform to improve their probability of standing at the top.

SUBHASH CHANDRA BOSE JAYANTI



As per every year, on 23 January the Gymkhana Council of the Govt. College of Engineering, Amravati celebrated Subhash Chandra Bose Jayanti very enthusiastically. All the secretaries gathered in the Admin building for the Idol worship along with the Gymkhana Secretary and Joint Gymkhana Secretary.

For celebrating the 123rd birth anniversary of Netaji Subhash Chandra Bose, all the secretaries with the Prof.R.H.Sarda, other faculties and staff members were gathered along with the valuable presence of Hon. Principal Dr.R.P.Borkar. The Idol Worship was done by our Hon. Principal Dr.R.P.Borkar and

Prof.R.H.Sarda. This entire program was anchored by Mr. Rohan P. Deshmukh, the Gathering Secretary of GCOEA. The principal Dr.R.P.Borkar Sir also expressed his valuable words on the occasion.

The whole program was concluded with the speech of Prof.R.H.Sarda.

ZENITH INTRODUCTORY SESSION FOR FIRST YEAR



A Zenith introductory session was arranged for the 1st year students to let them know about Zenith, the annual social gathering of our college in workshop hall on 24th January. The key speakers of the session were Mr Rohan Deshmukh (Gathering Secretary), Mr Sarthak Shrivastav (Zenith Enthusiast) and Mr Mayur Madhekar (Joint Gathering Secretary). A friendly interaction was laid down with a beautiful presentation by the speakers. Various events were well informed to the students concerning last year photos. Students enjoyed open conversation with their seniors. Some helpful tips were also given by the seniors to the juniors. The committees responsible for Zenith were also briefed to the students and they were instructed to be a member of Zenith family. At last, Zenith promo was launched which filled the atmosphere with electrifying energy and the program was concluded with the Vote of Thanks by Mr Rohan Deshmukh.

MCED WORKSHOP



"Team Edumagic", a group of 2nd-year students formed to establish startups and Entrepreneurship culture in the campus conducted a workshop in collaboration with MCED (Maharashtra Centre for Entrepreneurship development) with the guidance of Hon Principal Dr R.P.Borkar on 25th of January 2020.

A full-day workshop consisting of a series of lectures was organized to inspire students interested in Entrepreneurship as a career option.

The lunch was arranged in the Jijau hostel for the students as well as for the guests. Students who had their startup idea gained good guidance from the experts helping them in improving their business models, various other students also got the chance to clear their concepts about Entrepreneurship.

The overall program was successfully concluded with the excellent response from the students and organizers too and the participants also demanded similar workshops in the future.



REPUBLIC DAY



The Fervor of Freedom, The 26th January, on the nostalgic occasion of the red-letter day. Republic Day was celebrated with pride and patriotism at Government college of Engineering, Amravati on 26th January 2020. The festivities commenced on a musical note. The N.C.C. band of the NCC cell played a note which reverberated everyone with the feelings of patriotism. The entire college courtyard was resplendent in the shades of tri-colour.

The ceremony began with the hoisting of the tri-colour the pride of Nation by the revered Chief Guest and Hon. Principal Dr.R.P.Borkar. It was followed by inspiring speeches on the significance of occasion the spectacular NCC drill which stole the hearts of everyone. Everyone took a pledge to uphold the honor, integrity, dignity and uniqueness of our nation. A vote of thanks was tabled by the anchors in the end. Students moved to the dorm tho start a stress – free day, savouring the sweets distributing on the occasion.



AAGAZ 2020

‘Aagaz’ is one of the most well known 2 days art event managed by the Hobby Center. It is conducted in order to know various hidden, unknown, unexplored skills and talents of our college students. It provides a platform to explore their artistic skills, to all those students who lack in confidence and are embarrassed or have fear to express themselves.

Under this event, 6 various competitions were organized on 20th and 21st January 2020. .

All competitions were based on art skills, imagination and creativity. Each competition witnessed nearly 25-30 entries. Among all participants, winners and runner ups of each competition were decided and rewarded with certificate in Zenith program. Finally, Mr. & Ms. Aagaz 2020 were declared on the basis of their participation and artworks.

Mr. Aagaz: Mr. Gaurav Jadhav (2nd year ELPO)

Ms. Aagaz: Ms. Nidhi Bhagwatkar (3rd year EXTC)

Following are the Winners and Runner-ups of all competitions:-

Competition	Winner	Runner-up
Finger painting ELPO)	Nidhi Bhagvatkar(3rd year EXTC)	Raksha khatare (3rd year
Handkerchief Painting ELPO)	Gaurav Jadhav (2nd year ELPO)	Pranjal Hanwate (2nd year
Collage Making cse	Sakshi wadhe (2nd year Civil)	Janhvi Masodkar 3rd year
Popsicle Art ELPO)	Raksha Khatare (3rd year ELPO)	Vaishnavi Madaghe (2nd year
Blind Painting MECH)	Swamini Kukade (2nd year MECH	Sakshi Narkhede (2nd year
Doodle Making CSE)	Punav Vinod Walke (2nd year CSE)	Prajakta Raut (2nd year

Almost 120-130 students were participated in this competition. So many students were seen clicking photos and making their college life memorable. Special thanks to Prof.S.P.Bijawe, staff in-charge and Mr.Sarang Ikhar, Hobby center secretary to manage the event successfully.

THINKERS AND BLINKERS



The annual college magazine INNO- VENGERS 2019-20 of Govt. college of Engineering, Amravati have arranged a first-time offline competition for our college students. The competition was organized by the English section and was successfully conducted under the supervision of Mr.Tushar Pathak, Magazine Secretary, Mr.Prathmesh Bhansali, Chief Co-editor, Ms.Sakshi Mohod, Editor (English Section), Ms.Radhika Bakare, co-editor (English Section), Rupali Charpe and Komal Mishra. This competition received good response from the

students in-spite of having lots of activities running parallel in the college campus.

In the competition, the participants had to participate in pairs of two. There were two modes in this competition. One was writing the first half of poem by one partner while other partner had to solve a small puzzle related to our college. And after 15 minutes, the sheets were exchanged with their partner and they had to complete the above incomplete poem. At last, the evaluation was done based on the quality of the poem, the thinking of the participants and the time management by the participants after which Team INNOVENGERS announced the winners, and they were Mr.Uday Uikey(3rd CSE) & Ms.Kajal Karwa (3rd EXTC) while in the puzzle-solving, Mr.Sarthak D. Shrivastav (4th MECH) was the winner.



STUDENT COUNCIL SEMINAR

A Career Workshop was conducted in Government College of Engineering, Amravati by the Training and Placement Cell under the guidance of Dr R.P. Borkar –Principal, Prof. M.M. Deshmukh - Training and Placement Officer, Prof. A.M.Shah, Prof.Y.P. Chaudhary and Prof. M.B.Waghmare.



The workshop covered topics

- Why every College needs an E-Cell
- Cracking Summer Internships and Placements
- How to crack Group Discussions and Interviews
- Emerging Startup Culture in India
- Making most of your College life
- Personal Mentoring on Career options for interested students.

(The) Workshop was conducted in workshop hall in two sections (divisions) between 10:30 am and 5:00 pm. The speakers for the workshop were Mr Kanishka Patil and Mr Keshav Arora.

The first session had 'Personal one to one Mentoring' for the interested students regarding their doubts about choosing a career, preparing for placements, finding internships, etc. The second session from 2:00 pm was the Interaction session where various concepts related to interviews, placements, cracking group discussions, emerging startups in India, exploring oneself in college, Entrepreneurship, etc were cleared. This workshop was conducted for the students from 1st year to 4th year. Around 80 students were present for the workshop. The workshop was very fruitful and provided some insights which will be helpful for the students in their present as well as their future.



1. Mr. KANISHKA PATIL

- B.Tech from IIT Bombay (Chemical Engg)
- Currently in IIM Calcutta pursuing MBA
- Former Events Head of the Entrepreneurship Cell, IIT Bombay
- Passionate about mentoring students in their academic and co-curricular endeavours and have been to Business Conferences, colleges, etc.
- Intern at Aditya Birla Group, Hindustan Unilever Limited

2. Mr. KESHAV ARORA

- B.Tech from IIT Bombay
- Has started his venture and is successfully running it in Bangalore
- Former Events Manager at E-Cell, IIT Bombay

LIVING MEANINGFUL LIFE



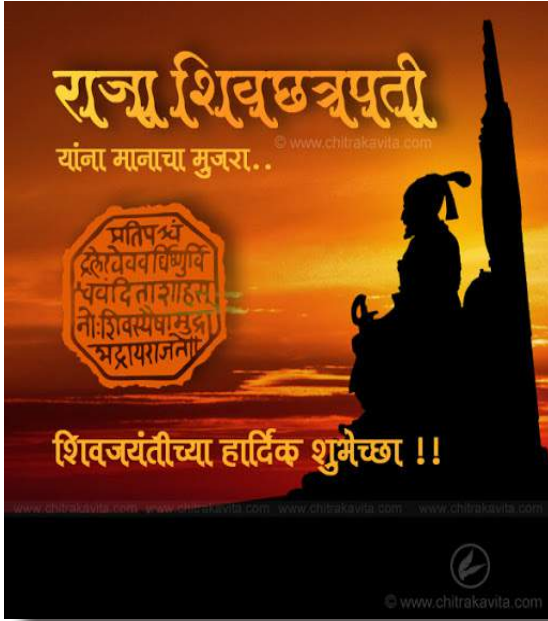
Life is the greatest gift we received from the almighty god. The main purpose of our existence on this planet is having some definite goal and plan which we must be able to understand in journey of life. With reference to the above subject a seminar was organized in the Government College of Engineering, Amravati on 15th February 2020. The session was organized under the UR council of the College and meant only for the Boys of the institute. The guest speaker of the session was Mr. Girish Muthiyan B.E Industrial Electronics, Senior Manager at the Bank of America who is also a motivational speaker and a lifestyle coach too.

Mr. Girish Muthiyan stressed on the various aspects of life and its purpose. He advised the students to know oneself and try to fulfill the objective for which we are on this Earth. The session had a great response from the

students and was very successful. The students enjoyed the seminar with their vision clear to lead a meaningful life. The program successfully concluded with the felicitation of the guest and with vote of thanks by Prof. M. V Jape.



SHIVJAYANTI SEMINAR



Chatrapati Shivaji Maharaj was a great leader, administrator, ruler and above all a great human being and in his remembrance his birth anniversary is celebrated all over the nation. Shivaji Jayanti was started by Mahatma Jyotirao Phule in 1870 with the first ever event being conducted in Pune. Later Bal Gangadhar Tilak revived the image of Chatrapati Shivaji and worked to unite people against the British Raj by celebrating the Shivaji Jayanti.

On the occasion of Shivaji Jayanti several events were organized by the volunteers of the JYOT foundation from 14th February-19th February. On 14th Feb SHIVAJI JAYANTI APTITUDE TEST was being arranged at Admin Building. (JYOT Volunteers

ironed the clothes, collected the amount for the donation and also placed garbage baskets at the required areas in the institute premises on 15th, 16th and 17th Feb). The main event of Shivaji Jayanti was commenced on 19th February consisting various sub-events under it. The day started with providing breakfast and tea to the students and faculties, made by the student volunteers of JYOT followed with the games such as Lagori, Arm Wrestling and Tug-of-War. The games created a cheerful ambiance in the campus. The winners of the Tug-of-War Boys were Pankaj Patil and team and Tug-of-War Girls were Raksha Jogi and team, also 1st year Instrumentation Boys won the Lagori with Sneha Suryavanshi as the winner of the Arm Wrestling event.

On the same occasion the Seminar was arranged in Workshop Hall. Mr. Sanjay Pawar Additional Collector and Mr. Nitin Vyavhare Residential Deputy Collector were the chief guests for the session. Specially abled students also graced the occasion with their presence. Dancing and Singing performances by the DIVYANG students was the special attraction of the program. Also the first three winners of the Aptitude test were given exciting prizes.



SSB TALK



The National Cadet Corps (NCC) cell of Government College of Engineering, Amravati arranged a talk on the Services Selection Board (SSB) interview of Colonel A. S. Bains (Commanding officer of 8Mah battalion NCC, Amravati). The program was organized in the Civil AV hall.

For the defense aspirants of our institute, the introductory seminar was organized and was hosted

by Colonel A. S. Bains (Commanding officer of 8Mah battalion NCC, Amravati) in which he shared insights of SSB interview and how to prepare for it. He also put some light on how to approach it and thus guided students with his life learning motivational speech which was appreciated by the students present in the session.

This program was concluded with vote of thanks and was conducted under the guidance of Prof.S.A.Lohi and supervision of Mr.Jay Khandare, NCC Secretary, GCOEA and Other NCC Cadets.

SAE BAJA RUNNER UP

Baja SAE-INDIA is an intercollegiate design competition run by the Society of Automotive Engineers (SAE-INDIA). Student teams from universities all over the world design build and race off-road vehicles that can withstand the harshest elements of rough terrain on earth. This year, the Baja SAE-INDIA 2020, organised by Mahindra & Mahindra Company, was held at Pithampur as well as Chitkara University. Team GCOEA (from our college) participated in the competition held at Chitkara University. The team consisted of 25 members from 2nd, 3rd and 4th year along with a club of around 50 automotive enthusiast-members headed by Dr.R.M.Metkar Sir (Faculty Advisor), Mechanical department.

This was the 3rd year of our college's participation in the event. With 22nd rank amongst more than 150 participating teams on a national level and 2nd fastest lap right in the 1st participation year itself, the expectations were definitely higher from the current endeavor. Team GCOEA successfully qualified the virtual design presentation round, held at Chitkara University, Punjab. in July, securing 95th national rank among 500+ teams from various colleges in India.

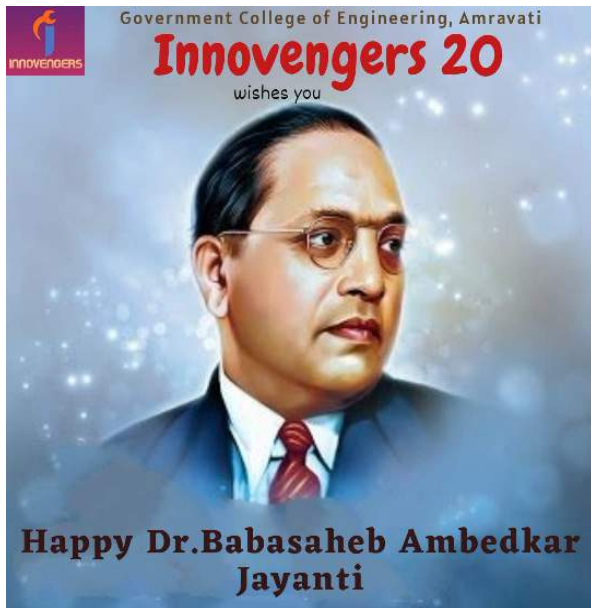
Design, material procurement, manufacturing, testing and validation of the All Terrain Vehicle was done by february, 2020 and the team was ready to compete in the event. Around

100 teams from various colleges participated in the main event. The event began on 6th march,2020 with static events like design presentation,sales and cost report evaluation . Further, the team cleared the technical inspection of the vehicle. Finally, the ATV(all terrain vehicle) cleared the brake test in the 1st attempt only. Acceleration, sledge pull and maneuverability tests followed thereafter on 7th march,2020. The most important test, the ENDURANCE RACE was scheduled on 8th of march.The team secured overall 2nd rank at the national competition and was awarded a huge cheque worth 1,25,000 rupees as the prize money. The title is a result of sheer dedication and top-notch performance in the following individual/overall events:

Sr. No.	Events	National ranks
1	Overall Competition	2nd
2	Endurance Race	2nd
3	Sales Presentation	3rd
4	Maneuverability Test	7th



Dr.B.R.Ambedkar and Mahatma Phule Quiz



On the eve of Jayantis of Bharat-Ratna Dr B.R.Ambedkar and Mahatma Jotiba Phule to make aware of their work for society and country and their total life-span, the Quiz was conducted by Students' Gymkhana of our college. This quiz is a time-bounded, on-line, on the life of these two great personalities. The quiz consists of 75 multiple choice questions with 30 sec time for each question. This quiz was designed for students as well as faculties.

The total 151 students and faculties registered for this quiz and out of which 108 attempted this quiz. Special thanks to Hon.principal of our college for allowing conducting this activity as well as setting the questions of the quiz. Special thanks to

Prof.R.H.Sarda for all the arrangements with Mohd.Ahfaz Lateef, University Representative, for the setting of paper and its conduction on-line. The participation of students and faculties in this quiz also appreciated by Prof.R.H.Sarda.

Top3studentsareasfollows

1-PrachiYadav

2-MitaleeManware

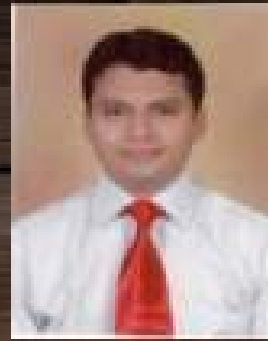
3-AniketDange

CREDITS :-

FACULTY:-



PROF.Dr.H.V.Patile



PROF.S.A.Lohi

SECRETARY :-



Tushar Pathak

CONTENT DEVELOPMENT :-



Neha Palaspagar



Aditi Walokar

DESIGNED BY :



Mayur Bhakare





Government College of Engineering, Amravati
(An Autonomous Institute of Government of Maharashtra)

मै खुद से किया वादा निभाऊंगा...

कौन रोक सकेगा मुझे ,मै चट्टान भी पिघलादूंगा ।
चाहे कितनी भी मुश्किलें आए , मै खुद से किया वादा निभाऊंगा ॥

सिर्फ मंज़िल की तलाश में मै एक एक कदम बढ़ाऊंगा ।
मै रास्तों में बिखरे कांटो को उन्हीं को चुभा दूंगा ॥
अब दिल में लगी आग को ऐसे नहीं बुझने दूंगा ।
मेरी तकदीर में वो लिखा हो या ना हो, मै तकदीर से वो छीन लूंगा ॥
होने से साथ भगवान का आशीर्वाद ,मै हर नौका पार लगाऊंगा ।
चाहे कितनी भी मुश्किलें आए , मै खुद से किया वादा निभाऊंगा ॥

माना आएंगी मुश्किलें सौ मेरी राह में,मै आगे बढ़ता चला जाऊंगा ।
लक्ष्य को पाने के लिए मै खुद को गुलाम बनाऊंगा ॥
रास्तों की परवाह नहीं अब,नाकामियाबी को गले से लगा लूंगा ।
हज़ार बार गिरने के बाद भी फिर से उठ खड़ा हो जाऊंगा ॥
' हार मानना नहीं मेरे खून में ' ,ये आज में उसको (मंज़िल को) बता दूंगा ।
चाहे कितनी भी मुश्किलें आए , मै खुद से किया वादा निभाऊंगा ॥

थकूंगा जरूर पर रुकूंगा नहीं,कुछ ऐसा कर जाऊंगा ।
याद करेगी दुनिया बरसो बाद भी,मिसाल ऐसी बनाऊंगा ॥
नहीं मिली आज कमियाबी मुझे तो क्या हुआ,मै आंखो में नयेसे सपने सजा दूंगा ।
मै आज अपनी असफलता को उसकी औकात बता दूंगा ॥
सवार के मुश्किलों को, मै जीत का तिरंगा लहरादूंगा ।
चाहे कितनी भी मुश्किलें आए , मै खुद से किया वादा निभाऊंगा ॥

-तुषार पाठक

तृतीय वर्ष उपकरणीकरण अभियांत्रिकी

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