



Government College of  
Engineering and  
Research, Avasari  
(Khurd), Pune

Zenith  
2K18



**Success Consists of Going  
From Failure to Failure  
Without Loss of Enthusiasm**

**- Winston Churchill**

# Vision

Empowerment through technological excellence for sustainable development

# Mission

- Value based and demand driven education using best practices
- Promotion of research, innovation and entrepreneurship
- Commitment to sustainable solutions in service of society
- Capability to face global challenges

# From the Desk of Principal



It is an exhilarating feeling to pen down my views (for the first time...) in the e-Magazine of GCOEARA, for which I have been waiting for quite some time. While it was unfortunate, that there was no Annual E-Magazine in the last two years, the heartening fact is, that, we have revived this tradition... And on this occasion, let us pledge to continue it without any break.

I am convinced that there can be no better platform to express one's literary adventures, than the college E-Magazine. It's a symbol of literary wealth of an Institute and showcase of the rich literary talent that the Institute ought to nurture. Let me assure everyone that we will take every possible step to encourage literary initiatives in our institute.

The academic year 2017-18 has been truly memorable. There was a major spurt in student activities of varied nature. Enthusiastic students are now seen participating in various National/State level competitions like ROBOCON, Go-Kart, BAJA, TIFAN, NSVC, Tractor Design, DIPEX, Aavishkar, Smart India Hackathon, Aakar, and many more besides our own ABINITIO. On the cultural and sports front, Bhimashankar Karandak, ZEST, SPPU Zonal Sports contest and our own Resonance and COMBAT saw some great performances. Our students have brought laurels to the institute by winning at Major events like Smart India Hackathon 2018, Bhimashankar Karandak 2018, DIPEX 2018, Aakar 2018, SPPU Zonal Weight-lifting, Kabaddi and Kho-Kho championship and many more. In many of the above events, it has been the maiden effort of our students, and they have done exceedingly well. The plethora of activities has made our campus truly vibrant and lively.

However much more needs to be done. I urge all my students to take up some extra/co-curricular activity, besides academics for ones overall development. For this, I am open to any suggestions any time of the day, from my staff/students, which will make the campus life of my students more enriching and meaningful. To conclude, let me reproduce my favourite quote.....

"I am not a product of my circumstances. I am a product of my decisions. - Stephen Covey"

**Dr. A.S. Pant**  
**Principal**

# From The Desk of Magazine In-charge



It gives me a great pleasure to write a message for the Annual College Magazine for the year 2017-18 i.e. 'Zenith- 2k18'. The engineering students have shown their high talents in the field of literature with the huge number of articles that we received. The magazine has provided the same students with a platform to bring out their talents.

The concept of E-Magazine is not new in this college. We are publishing the online version in continuation for the fourth time. And it is the demand of the era, there has been a transition to the online world, and no one can understand the fact better than the engineering students. The clean green eco-friendly nature of the magazine has been a remarkable concept.

I would like to thank Principal Dr. A.S.Pant, who has been an inspiring personality for the students and all the respective HODs.

I wish best wishes to the whole magazine team for success of the magazine. May their hard work pay.

**Kishorekumar H. Kowdiki**  
**Magazine In charge**

# From The Desk of Asst. Magazine In-charge



Dream is not the thing which you see when you sleep. It is the thing which does not let you sleep.

**Smt. Nivedita Wagh**  
**Asst. Faculty Magazine In-charge**

# Message From Student Magazine

## In-Charge



Dear Readers,  
Greetings to you!!

Fall is one of the most exciting periods at a college because it's the start of something new. Our campus is filled with smart, inspired, hardworking students. This time we have made an attempt to bring out the talent concealed and creative side of our students and teachers.

We are pleased to present to you the "ZENITH 2K17-18" the Annual College Magazine of this institute. Enjoy every moment you have, because in life there aren't rewinds, only flashbacks.

For you, our Magazine team

has worked hard to bring up an exhilarating flashback of the inception of the college, its history and the events and the achievements during the session 2017-18.

I want to thank our respected Principal Dr. A.S Pant, Prof. K.H. Kowdiki, Prof. N.P.Wagh and whole magazine team for the continued support and guiding throughout the whole process.

We have for you, from the students, teachers a wide range of poetry, sketches and some informative and inspirational articles. Happy reading!

**Madhumati Suman**

**Student Magazine In-Charge**



# Message From Cultural Secretary



I feel a great pleasure to convey my message to students through our Annual College Magazine. This message is not for boasting about my achievements as a Cultural Secretary but it is part of the responsibility I have as a Cultural Secretary.

As we are engineering students, we should understand that only technical knowledge is not enough to be successful in the industry but we also should know how to work with the team and how to get work done.

And I'm really happy that through different competition we have participated in, our college students have surely learned that. As like earlier years, this year also our college team have participated in MOOD INDIGO, cultural fest organised by IIT BOMBAY. There we participated in Streetplay completion, which is a forte of our students. By being there, we learnt the organising skills and to work under pressure. This year our college team have proudly lifted the Winners trophy of Bhimashankar Karandak 2018. That was a real achievement as, out of 6 seasons of the competition our college have won three times. This proves we have powerhouse of talent, we just need to guide it properly.

In our Annual Social Gathering, Resonance 2k18, our students showcased the different talents from managing the event to presenting the great performances. I would request my friends, that along with academics be the part of at least a team representing our college at any technical or non technical event. Because this experience will teach you, what any book can't.

In the End, I would like to thank Principal Dr. A.S. Pant Sir and Head of all the 6 departments who showed their trust and gave responsibility to my Team to conduct events in our college. Special thanks to my Team who supported me in this adventurous journey. Lastly thanks to the magazine team for giving this platform and my best wishes are with them.

**Arpan Thakare**  
**Cultural Secretary**

# Message From Sports Secretary



It's been a great privilege for me to deliver a message to my friends through Annual College Magazine. First of all, I want to thank everyone for cooperating with me for making our sports fest a Grand Success. Sports have never been about winning or losing, it's always been about participating. Sports always emphasize on unity. I am very glad that every sports person in our college showed their whole dedication on court/ground no matter whatever be the results. I can proudly say that every year our college is achieving success in different fields. Being a Sports Secretary of our

college was a great honour for me. It will be the best memory and useful experience for me throughout the life.

I will share some achievement with our college students for this academic year 2k17-18. Starting with university level, our college chess team achieved great success in intercollegiate level. Girls team stood up first and boys were the second runner-up. Team kho-kho of girls had won the Winner trophy at "ZEST 2K18" at COEP and "VIT Mélange". Team Kho-Kho boys had a runner-up at VIT Sports. Also, in weightlifting game runner-up at intercollegiate level and third rank at inter-zonal level. Kabaddi team had reached to semis in MIT Kothrud, SRT Kamshet, and COEP. This was not possible without great support and help from the college.

I would like to thank every sports living student from our college (especially from S.E and T.E). I am also thankful to my seniors for their guidance. All game coordinators took their responsibility and completed their task well in time. This journey was not possible without the support of our beloved Principal Dr. A.S.Pant and Gymkhana in charge Dr. N.P.Futane.

Lastly, I would like to convey my best wishes to Annual College Magazine "Zenith 2k18" and the whole team.

**Pramod Kernath Kamble**  
**Sports Secretary**

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ENGLISH

TIME

*for you*

# Editor's Message

Dear Readers,

Our college is developing in technical sections but along with it, our students have also maintained their creative minds in the literature. This magazine will be your one-stop information guide on what's happening in our college and lots more! Well, any educated society is incomplete without adequate time investment informative as well as creative articles. This very thing motivated us to launch 'Zenith- 2018'. This section "English Time for you" is full of a variety of English Literature nuggets which takes us to the different dimensions other than engineering life. This section is to showcase the creative minds of our college with amazing imagination in the poetic field too. It also throws light on some of the sections of society which are not talked about. We are not professionals, but we have tried our best to give you something, which with your support, will evolve into an asset for erudite GCOEARA crowd. I would like to thank Staff Magazine In-charge and Student Magazine In-charge to give me this opportunity to lead the English section. I would also like to thank my co-editor and all magazine team for their support and help. In the end, for making this magazine a grand success, we need the support of all students, alumni and the faculty.

So, sit back and enjoy browsing through the magazine. Happy Reading folks!

**Sanjana Jadhav**

**English Editor**

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# The Terrorsome Examinations

As the glorifying year comes to an end;  
Again starts the wreck less trend;  
Books on Books & Notes on Notes;  
This burden results in many chokes;  
The upcoming youth takes it as a load;  
This makes them forget even their own city's road;  
Months by months & days by days pass by;  
And finally comes the day they deny;  
The trembling hands & terrified faces;  
Ah! Those guys even don't remember tying their  
laces;  
At last, comes the question paper in hands;  
Innocent faces hope for a fairy with the magical  
wand;  
Slowly & slowly the time passes by;  
Making the throat sick & dry;  
Finally the commencement of the end of  
examination;  
This gives the joy as president of the nation;  
The so-called awaited day of the result is here;  
But the smiling faces are very rare;  
The children who scored less & couldn't create an  
impression;



Awww! Poor they get into depression;  
Nevertheless!! This isn't the end of the story;  
This climax is still remaining my jury;  
This is for the ones who take it as a burden;  
Please, people!! On your mind you have curtain;  
One of the wonderful on the planet is the test;  
Don't be afraid my friend; go give it your best;  
The exams give us a chance to prepare & then  
take the test;  
But life has got something else for the rest;  
The life takes the test first & then leaves an  
experience;  
This is the world's awesome Incidence;  
Don't you be afraid my friend;  
This is the life's own cool trend;  
So, now look into the fears of eyes & say;  
Ah!! You little creep! Good Bye!!

**Hiteshee Rathod**  
**( T.E Computer)**

# Mistake or Opportunity?

Many times we come across situations which we are not able to understand, whether they are our mistakes or a chance for ourselves to excel in life. Coming to this college (GCOEARA), taking engineering in the first place, and taking computer engineering & many more.

For those readers who don't know me, I wanted to take up research as my profession and passion and wasn't even aware of how to take admission in engineering (the entrance tests), the different colleges available and the best ones of them. You might find it funny and surprising about how dumb I was or was I living under a rock all this time, but the fact is fact that I didn't know about colleges like IIT Bombay or COEP until I actually got admission in GCOEARA. I was concerned about taking admission in IISER and didn't bother taking the efforts to get to know about other options but in the end, I didn't get admission in IISER and it was late to apply in any other research college as applications were closed. Since then a lot of mistakes were made by me but the time spent in this college made me reconsider, were these really mistakes or an opportunity for something better. Every time I meet my friends from school they tell me what kind of unknown college is this, but in my mind, I think, is being initially unknown that bad? Most of the celebrities we see today were unknown once but they came into the limelight once people saw their talent.

I felt bad at first and silently took admission in engineering and didn't retry for admission in IISER. Many people criticized me telling me it's a mistake I made, but those decisions showed me what I can do and how I can get on my own feet.

My own classmates say to me it's a god-forsaken college with hardly any teachers. It might be a mistake to choose such a college but the way I see it, this offers an opportunity to test my skills and see how far I can walk alone with my own efforts and without or least help from others. Everyone says that there aren't any cultural events like other colleges in our college and I say, "Dude, visit at least one event and then say what we have what we don't". How can a person who didn't even visit any event and ran home on that day as a holiday say something like this? Everyone (school friends and teacher) criticizes me for being in a college which is not well-established. They show me how their college has various clubs, events or other achievements. I'm like, these people didn't achieve that, their seniors did, being here gives me an opportunity to get my college that accomplishment and start all those clubs. There might not be many resources available but it presents an opportunity to find out ways to get what I want with the least resources. Necessity is the mother of all inventions, who knows I might invent something new. My friends post pics from various college events like Techfest, Mindsparks, Mood Indigo and so on. I say to myself every time, you are visiting there to see and post pictures with hashtags like #fun, #awesome and so on, but one day either I'll organize such an event or do something notable enough to be a Chief Guest in such an event you just wait and watch. After all, passively watching an event is not as much fun as it is when you do something in the event. Sitting back and enjoying what others did and taking advantage of the opportunities someone else made isn't that much fun as it is when you create your own opportunities. People can tell me as much as they can that the decisions I made were mistakes but the way I see it, they are opportunities for me to make my future and present even better than what I planned before.

# Mathematical Marriage

To,  
Mrs. Trigonometry,  
Graph's Bldg.,  
Logarithmic Street,  
De-Moiver's House.

Dear Trigo,

I, with permutations of regards, seek your opinion(s) on the marriage of my youngest son Mr. Zero with your daughter Ms. Infinity. Though my son seems unworthy, he loves your daughter dearly and they are ready to die for each other. One proof of this fact is given below:

**Any number/Zero=Infinity & Any number/Infinity=Zero**

I think that the bond they share is something special. My son wants to make a restricted permutation, where Zero and Infinity always come together.

I hope for your approval for which I will be grateful to you. If you approve of my proposal, I suggest this month of co-ordinate and the week of complex numbers for matrimony.

Please let me know all the data and your views after consulting all your formulae, log tables and of course the slide rule. Please do consult your esteemed sister solid geometry and your uncle differential calculus before you inform of the final date. Do convey my regards to sine, cosine, cosecant, cotangent, secant and Ms. Tangent.

I am eagerly waiting for your letter with all my members AP, HP, GP, Binomial theorem and Determinants.

Thanking you.

Yours sincerely,  
Mrs. Algebra.

Prajakta Jadhav  
T.E. E & T.C.

# The Beautiful Truth

These winters it's so cold  
out here. The Moon is busy  
playing trampoline in the  
breeze of loneliness. And I  
have felt the love with the  
sunshine of your smile.

After all, your wings of wonder do seduce  
me more  
than roses. Despite, being  
humbled by the boundless  
heart of yours, you make me feel grateful  
to one of  
the most beautiful creations  
of this universe.

**Vedant Achtani**  
**S.E. Inst. & Control**

# Is Mumbai safe for girls?

Moving from the capital of India which is the most dangerous city for girls to the safest city Mumbai, the financial capital.

Is Mumbai actually safe? Maybe or may not be.

I remember an incident of a photojournalist who was accompanied by a male colleague, was gang-raped at 6 pm in Lower Parel. This incident has shaken whole India. Until this matter settles Nirbhaya case gives goosebumps and makes it a topic to worry a little. It is a topic of concern and should be deeply investigated. Does a girl's dressing sense always provoke men to do so?

I don't think so, because dressing according to ourselves is the right given by our constitution and no one has the right to mess with that. The thing which needs to be changed is the thinking process and the approach of men towards women. Making men aware of the fact that their, mother, sister, wife are women themselves and can experience the same outside the walls.

Women are asked to reach their home before 7 pm. Why?

Because there are dogs roaming out wearing mask of a human, these dogs need to be brought under control before time elapses.

Mumbai is the city which never sleeps but still, Mumbai is a bit risky for women at night. Why can't we make sure that every women feel secure when she is out of those four walls. There is a need for transformation in thinking, approach and laws. Mumbai's public transport is the reason women can move around safely. Be it the last train or last bus, you will find women on it. The conductor on it will give you a ticket without a second glance. He won't consider you fair game because you are out so late. And the men will risk their lives running to the general compartment of the last local train rather than hop on to the nearer 'ladies' compartment. That space is reserved for women, and the men know it. Why women are safe in Mumbai is that they belong in its public spaces; they know this, and so does the city.

My opinion is," Mumbai is far way better and safer than Delhi or any other city for women".

**Omkar Pingale**

**S.E. Inst. And Control**

# GO AHEAD

Why are we afraid of difficult stuff?

Don't be afraid of the difficult stuff. Get enthusiastic about it. Don't avoid the hard complicated tasks. Run out and greet them with open arms. Imagine how great it will be to have those things done and to have the value they will create, Imagine; then jump in; enjoy bringing that value to life. While everybody else is complaining about an avoiding and resenting what they must do leap out ahead; distinguish yourself. Embrace the challenges; activate your resourcefulness to transform those challenges into achievement. Opportunities are everywhere in this world. Let yourself know the joy; satisfaction of making those great opportunities into shining new realities. Go ahead; put forth some challenging effort in the service of meaningful purpose. And see how quickly it energizes your life. In every experience of disillusionment is the small seed of hope. In every experience of disappointment is the initial stirring of determination. That small thing of hope, which makes disillusionment possible, will grow if you let it. From utter despair comes brilliant success. What sets you back also sets the stage for you to move forward. What appears completely hopeless gives you more reason than ever to hope. No matter what was in your past, you now have the opportunities to create the future of your choice. You just go ahead!!!

**Devyani P Jangde**  
**(TE E&TC)**

# You weren't allowed

You weren't allowed to commence it all at first.

You weren't allowed to win all her trust.

You weren't allowed to make her feel, all you want is her.

Because then she thought it was a clear picture which will never turn blur.

You weren't allowed to be with her every time and everywhere she went.

Because then she just thought of 'forever' and never knew all of this will faint.

You weren't allowed to protect her all the time.

You knew she was losing everyone and you became prime.

You weren't allowed to make her fall for you.

Because you were not willing to make efforts you knew.

You weren't allowed to love her so much.

Hugging and pampering her all the time, just with your eyes she felt the touch.

Like a married couple, you used to fight.

Then crying and trying hard to make things right.

You weren't allowed to make her mornings and nights as beautiful as a pearly dew.

Because then she dreamt of the marriage, grandchildren and her next life, all with you.

One fine day, you approach her with all the guilt in your heart.

Ask her to forget you and tear her apart.

Yet again,

You weren't allowed to bring those tears in your eyes.

Because if you can't even stand for what you love then what is the use of all the cries.

You weren't allowed to run away like a coward.

All by grief and pain she was devoured.

You weren't allowed to make her dreams turn untrue.

All she did was believed you, just you!

She just wished togetherness for eternity like a never-ending song.

Darling, you weren't allowed to prove her wrong!

You weren't allowed to prove her wrong!!!

**Snehal Dube**  
**(B.E Computer)**





# हिंदी



# संपादकीय

महाविद्यालय की पत्रिका के प्रकाशन पर मुझे अपार हर्ष का अनुभव हो रहा है। अभियांत्रिकी शिक्षण संस्थाओं में छात्राओं के व्यक्तित्व के सम्पूर्ण विकास के लिए शिक्षा के साथ-साथ अन्य गतिविधियों का होना भी अति आवश्यक है। इन गतिविधियों के माध्यम से उनके व्यक्तित्व के अनेक पक्ष उदघाटित एवं विकसित होते चलते हैं। पाठ्यक्रम के बोझ तथा परीक्षाओं में अच्छे अंक लेने के दबाव के कारण प्रायः छात्राओं की मौलिक लेखन की प्रतिभा दबी-छिपी रह जाती है। महाविद्यालय की पत्रिका उन्हें इस क्षेत्र में भी अपनी प्रतिभा को उजागर करने का सुअवसर प्रदान करती है।

प्रस्तुत विभाग में छात्राओं के लेखन प्रतिभा का दर्शन होता है। जिंदगी के मुल्य, समाज में नारी का स्थान ऐसी जीवन पर आधारित रचनाएँ छात्राओं की लेखनी से प्रस्तुत हैं।







पत्रिका के निर्माण में प्रा. कौडिकी सर का अमूल्य मार्गदर्शन प्राप्त हुआ। सभी रचनाकारों का तहदिल से आभार जिनकी रचनाएँ पाठकों का मार्गदर्शन करेगी। आशा है, इनके द्वारा पाठकों का मार्गदर्शन अवश्य होगा तथा उनका मनोरंजन भी होगा।

विभाग के संबंध में आपके सुझाव पत्रिका को और बेहतर बनाने के लिए महत्त्वपूर्ण हैं। पत्रिका के सभी सदस्यों तथा छात्राओं को हार्दिक शुभकामनाएँ प्रेषित करती हूँ।

**रूतुजा भुजबल**  
**हिंदी संपादक**

# अनुक्रमणिका

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# जिंदगी

जिंदगी हर वक्त मुस्कुराने का नहीं,  
कभी आँसू बहाने का भी नाम है।  
जिंदगी हर वक्त फूलों की सेज का नहीं,  
कभी कभी काँटों का भी नाम है।  
जिंदगी हर वक्त सिर्फ पाने का नहीं,  
कभी कभी त्याग का भी नाम है।  
जिंदगी हर वक्त गुमनामी का नहीं,  
कभी दूर समुन्दर से मोतियों की सीप लाने का भी नाम है।  
जिंदगी हर वक्त मोहब्बत में गिरने का नहीं,  
कभी किसी के इबादत में उठने का भी नाम है।  
जिंदगी हर वक्त बेड़ियों का नहीं,  
कभी सारी बंदिशों को तोड़ने का भी नाम है।  
जिंदगी हर वक्त बारिश से भीगी मिट्टी की सौंधी खुशबू का नहीं,  
कभी आँखों को मोहलेने वाले नज़रे का भी नाम है।  
जिंदगी हर वक्त किसी के होने का नहीं,  
कभी किसी के एहसास में डूबजाने का भी नाम है।  
जिंदगी में लोगों का आना जाना तो लगा ही रहता है दोस्तों,  
असली जिन्दगी तो दिलों में अपना छाप छोड़ जाने का नाम है ॥

प्रीती श्रीवास्तव  
प्रथम वर्ष, स्वयंचलन विभाग

# दिल जो ना कह सका....

दिल जो ना कह सका वह तुने कह दिया  
दिल जो ना पढ़ सका वह तुने पढ़ लिया

दिल जो ना धड़का कभी वह तुने दिखा दिया  
दिल जो ना तड़पा कभी वह तुने सिखा दिया

जो न कभी रोया दिल वह तुने रूला दिया  
जो ना कभी खोया दिल नये ख्वाब वो दिखा गया

बेशर्म ऐ दिल तुझमे मचलता ही चला गया  
तेरी ही याद में हर दम बिखरता गया

संभाला इस दिल को बार भी पर  
दिल है कि तेरी हर दम सुनता हि गया

दिल तो मेरा है पर क्यों सांसे तेरी है  
धड़कन मेरी है पर क्यों याद तेरी ही है

पागल-ऐ-दिल क्यों तुझको ही देखता गया  
दिल में हमेशा तुझको ही पाता गया

सूरत तेरी अभी मेरे सपनों में भी आनेलगी  
तेरी एक झलक के लिए मेरी आँखें तरस गयी

पलकोंपे अब तुझको ही बिठा दिया है मैंने  
दुआ में मेरी तुम्हे ही शामिल कर लिया है मैंने

# भारत की एकता

न जाति, न धर्म, न भाषा हमारी  
यह एकता का मूल मंत्र है।

जिसके मुकुट पर तिलक साजे  
यह एकता भारत की है ॥

जिसकी धूलि पर मर मिटते है  
बोस, सिंह और आज़ाद।

जिसके आगे कमज़ोर पड़ जाए हर एक चट्टान  
यह एकता भारत की है ॥

जिसकी पवित्रता है  
गंगा, सीता और मीरा के समान।

जिसके आगे झुक जाए हर मस्तिष्क  
है ये भारत की एकता ॥

है कोटी-कोटी नमन उस आज़ादी को,  
जिसकी साक्षी है स्वयं हिमालय और उस पर लह-लहाता  
तिरंगा।

है कोटी-कोटी नमन उन वीर सपूतों को,  
जिनके कारण यह संभव हुआ ॥

उठो देश के सपूतो,  
संपन्न हुआ आज़ादी का संग्राम।

अब एकता के बलपे,  
देश को दिखलाना है स्वर्णिम मार्ग ॥

प्रीती श्रीवास्तव

प्रथम वर्ष, स्वयंचलन विभाग

# तेरी यादों में

तेरी यादों में अपने आँसू बहाना...  
तेरी यादों में रात-रात भर जगना...  
उन रातों में अपनी डायरी में तेरे बारे में लिखना...  
और लिखते-लिखते हसीन पलों में खो जाना...  
अब बहुत हो चुका...!  
इन हसीन चेहरों के बीच तेरा खूबसूरत दिखना...  
तेरे चेहरे की मुस्कान को याद करना...  
उस हसी को याद करके दिल ही दिल में मुस्कुराना...  
अब बहुत हो चुका...!  
मिलते हैं हम अब भी...,  
पर इस मुलाकात में वह बात कहा...  
जो पहले की मुलाकातों को भुला दे...  
उन कभी ना खत्म होने वाली हमारी बातों को याद करना...  
अब बहुत हो चुका...!  
मैं आज भी उतना ही बेकरार हूँ...  
अब भी वह दीवाना हूँ...  
पर आज कल दीवानगी जैसे गुम सी हो गई हैं...  
इस दीवानगी को ढूँडना  
अब बहुत हो चुका...!  
मैं आज भी हसता हूँ...  
आज भी खुश रहता हूँ...  
पर अब चेहरे पर ये झूठी खुशी  
और बेमतलब की हसी दिखाना...  
अब बहुत हो चुका...!  
सुन पगली... अब बहुत हो चुका...  
खत्म कर दे ये दूरियाँ...  
खत्म कर दे ये इंतजार...  
थक चुका हूँ... डर रहा हूँ कहीं हार ना जाऊ...  
खिलने दे मेरे चेहरे पर वह हँसी...  
ऐसे खो कर रहना  
अब बहुत हो चुका...!

अनिकेत अडोले  
तृतीय वर्ष, स्थापत्य विभाग

# वो एक पल

वो एक पल,  
तेरी लहराती जुल्फे, मुस्कुराता चेहरा,  
इस दिल को दे गया घाव गहरा।

वो एक पल,  
तेरे लब्ज मेरे सामने चुप रहते थे,  
पर तेरी ये आँखे दिल की बात बया करते थे।

वो एक पल,  
तू सामने से चली आती थी,  
Cute सी स्माइल ख्वाबों में तेरी याद दिलाती थी।

वो एक पल,  
तू मेरे साथ ढेर सारी बातें करती थी,  
मुझमें तेरे वजूदगी का एहसास दिलाती थी।

वो एक पल,  
जब तू हर परेशानिया, बेताबियाँ,  
मुझे बताती रही,  
अपनी वह नादान नादानियाँ  
बेझिजक दिखाती रही।

वो एक पल,  
हाथों में हाथ लेकर तू शर्माती रही,  
पर तू मुझे, अपना दोस्त बताती रही।

वो एक पल,  
तेरे साथ बिताये हुए हर लम्हे,  
तेरी याद दिलाते हैं।  
आज भी इन लम्हों के साथ,  
तेरे ख्वाब मुझे सुलाते हैं।

वो एक पल, हर पल तेरी याद दिलाते हैं।

रितेश उक्तेकर  
तृतीय वर्ष, अनुविद्युत विभाग



# मेरी माँ.....

जितना मैं पढ़ती थी, शायद उतना ही वो भी पढ़ती थी,  
मेरी किताबों को वो मुझसे ज्यादा सहज कर रखती।  
मेरी कलम, मेरी पढ़ने की मेज़, उस पर रखी किताबे,  
मुझसे ज्यादा उसे नाम याद रहते, संभालती थी किताबे।  
मेरी नोट-बुक पर लिखे हर शब्द, वो सदा ध्यानसे देखती,  
चाहे उसके समझ से परे हो, लेकिन मेरी लेखनी देखती।  
अगर पढ़ते पढ़ते मेरी आँख लग जाती, तो वो जागती रहती,  
और जब मैं रात भर जागती, तब भी वो ही तो जागती रहती।  
और मेरी परीक्षा के दिन, मुझसे ज्यादा उसे भयभीत करते थे,  
मेरी परीक्षा के हर दिन रह-रह कर, उसे ही भ्रमित करते थे।  
वो रात-रात भर, मुझे आकर चाय, कॉफ़ी और बिस्कुटकी दावत,  
वो करती रहती सब तैयारी, बिना बोले, बिना रुके बिना थकावट,  
अगर गलती से कभी ज्यादा देर तक मैं सोने की कोशिश करती,  
वो आकर मुझे प्यार से जगा देती, और मैं फिर से पढ़ना शुरू करती।  
जितना जितना मैं आगे बढ़ती रही, शायद उतना वो भी बढ़ती रही,  
मेरी सफलता मेरी कामयाबी, उसके ख्वाबों में भी रंग भरती रही।  
पर उसे सिर्फ एक ही चाह रही, मेरे ऊँचे मुकाम की,  
मेरी कमाई का लालच नहीं था उसके मन में, चिंता रही मेरे काम की।  
वो खुदासे बढ़ कर है, पर मैं ही उसे न समझ पाई,  
वो मेरी माँ है, जो मुझे ज़मी से आसमान तक ले गई,  
ना जाने कैसे.....

आचल दमाहे  
तृतीय वर्ष, अनुविद्युत विभाग

# हमारी कहानी

नए नए से आये थे एक दूजे से अनजाने ... खुलकर मिलने में भी हम सब थे थोड़ा सकुचाते

सुबह-सुबह उठकर मेस में लाइन जो लगाते थे तभी एक दूसरे का हाल चाल पूछ लेते थे बस से कालेज तक

हर असाइनमेंट छाप-छाप कर अपना ज्ञान बढ़ाया है और कुछ आया ना आया नक़ल करना बखूबी आया है

mass बैंक, प्रॉक्सी के जरिये पढ़ाकुओं को गधे-घोड़े का फर्क समझाया कालेज ना जाने पर भी निशांत हिरानी क्लास में present

आया कुछ का नाम बिगाड़ा कुछ की मौजू उड़ाई दोस्त के जन्म दिन पर उसे लातों से मारने पर भी दावत उड़ाई

मतभेद कभी जो बढ़ गये खुद ही सुलझाते थे एक दूजे से घुल मिल माहौल को मस्त बनाते थे

exam समय आने पर खुद को रात रात जगाया था समझ नहीं आने पर 'मुझे पढ़ा दे' का नारा भी खूब लगाया था अब placement टाइम आया है टैशन का सग में लाया है रात-रात घिसते हैं फिर भी कहीं नहीं हो पाया है

कुछ की लग गयी है कुछ की लगने वाली है नौकरी की चिंता क्यों करते हो वो तो अपनी घरवाली है आज नहीं तो कल खुद चलके आ जानी ही है आज भले रूठी हो जरा, कल मान ही जानी है कुछ को Google कुछ को TCS यारों मिल ही जानी है ये मौजू मस्ती की जिदगी फिर ना कभी आयेंगे चार बरस जीवन के ये सबसे सुखमय कहलाएंगे बीवी होगी बच्चे होंगे उनको खूब बताएंगे चार बरस जीवन के यारों वापस कभी नहीं आयेंगे।

अभिजीत तिवारी  
तृतीय वर्ष, अनुविद्दुयत विभाग

ਸਾਠੀ

# संपादकीय

प्रिय वाचक,

2017-18 या वर्षासाठी संस्थेचा वार्षिकांक आपणासमोर कृतकृत्येच्या भावनेने सादर करीत आहे. कला, साहित्य व क्रिडा यांना मनुष्य जीवनात अतिशय महत्त्वाचे स्थान आहे. जीवनाची खडतर वाटचाल करीत असताना मानवी जीवनात आनंदाचे झुळुक देणारे वाटेवरचे थांबे म्हणजे कला, क्रिडा व साहित्य यांचा सुखद, निर्मळ अनुभव!

“ZENITH 2K18” मध्ये प्रकाशनासाठी विविध प्रकारच्या साहित्याचा वर्षावच केला. परंतु साहित्याचा किमान दर्जा व मुद्रणाची मर्यादा लक्षात घेऊन निवडक साहित्य आपणासमोर सादर करीत आहोत. संस्थेचा वार्षिकांक हा जगन्नाथाचा रथ आहे. त्याच्या जडणघडणीसाठी अनेक मान्यवर व्यक्ती व घटकांची प्रत्यक्ष व अप्रत्यक्ष मदत झाली आहे. संपादक मंडळ अशा सर्व व्यक्ति व समाज घटकांच्या भावना न दुखावता त्यांच्या प्रेमळ ऋणातच राहू इच्छिते. संस्थेतील सर्व विद्यार्थी विद्यार्थीनिंना भावी यशस्वी आयुष्यासाठी मंगलमय शुभेच्छा!

दिपक रणदिवे  
मराठी संपादक

# अनुक्रमणिका

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# कोणी तरी पाहिजे...

आयुष्याच्या सीमेवर कडेलोट करणारे भरपूर भेटले  
आता कोणीतरी कडकडून मिठी मारणारा पाहिजे  
मृत्युलोकाच्या भूतलावर राहणारे भरपूर भेटले  
आता कोणीतरी खांदा देणारा पाहिजे  
माझ्या डोक्यावर पाय देऊन समोर जाणारे तर भरपूर भेटले  
आता कोणीतरी माझा हात हातात घेऊन सोबत चालणार पाहिजे  
दुसऱ्याचे मन मारणारे तर भरपूर भेटले  
आता कोणीतरी मन जिंकणारा पाहिजे  
स्वतःचा गर्व जपणारे तर भरपूर भेटले  
आता कोणीतरी अपमान सहन करणारा पाहिजे  
सोन्याची संपत्ती लुटणारे तर भरपूर पाहिले  
आता कोणीतरी मायेची संपत्ती लुटवणारा पाहिजे  
मायबापाला घराबाहेर काढून वृद्धाश्रमाची संख्या वाढवणारे भरपूर  
भेटले  
आता कोणीतरी वृद्धाश्रमाला घर बनवणारा पाहिजे  
आयुष्याच्या वळणावर वेदना देणारे तर भरपूर भेटले  
आता मनापासून प्रेम देणारा कोणीतरी पाहिजे,  
प्रेम देणारा पाहिजे...

ऋषिकेश काळे  
तृतीय वर्ष अणुविद्युत अभियांत्रिकी



# चंद्र

चंद्र जिला स्वतःच जग मानून  
जिच्या भोवती फिरत होता...  
त्याला काही कल्पनाही नसेल  
ती पृथ्वी कोण्या एका सूर्या भोवती  
भावना घेऊन परीक्रमा करत आहे  
एकीकडे चंद्र आहे  
ज्या साठी पृथ्वीच प्रेम आहे  
अन कदाचित त्याला माहीत आहे  
की तो पृथ्वीचा आहे...  
..... पण पृथ्वी त्याची नाही...  
तरी तो थांबत नाही..थकत नाही...  
स्वतःच्या प्रेमावर विश्वास ठेवत  
तो कोण्या जादूच्या आशेत  
स्वतःच जीवन जगतोय..  
अन दुसरीकडे पृथ्वी आहे...  
जिला चंद्राच प्रेम तर दिसतय..  
पण त्याच प्रेम तिला सुर्या भोवती फिरायला भाग पाडतय...  
ही अशी असह्यता आहे..  
जिचा पृथ्वीलाच थांग नाही..  
चंद्राच प्रेम तिला आवडत खर..  
पण ती सुर्याभोवतीच स्वतःला स्थिर समजून घेत आहे...  
अन तिसरी कडे सूर्य आहे...  
जो स्वतः जळतोच आहे ...  
पण कोणाला जवळ येऊ देत नाही..  
त्याच्या मनातील आग फक्त त्यालाच माहीत आहे...  
त्याच्या भोवती सारे फिरतात...  
पण त्याला जवळ कोणी नको..  
प्रत्येकच स्वतःच्या आयुष्यात सर्वच आहे...  
कधी सूर्य.. कधी चंद्र तर कधी पृथ्वी ...  
आपण सगळेच स्वतः साठी पूर्ण आहोत...  
आणि सगळेच स्वतः अपूर्ण आहोत...!!!

अनिकेत अडोले  
तृतीय वर्ष, स्थापत्य अभियांत्रिकी

# तुझी साथ

सुरुवात कशी करावी सुचत नाही, शेवट मात्र पक्का आहे  
जीवनाच्या या वाटेवरती भावनांचा शिक्का आहे  
संकटांवरती आता सगळ्याच मात हवी आहे  
आयुष्याच्या प्रवासासाठी आता तुझी साथ हवी आहे  
सुरु आहे आयुष्य त्यात नवी बात हवी आहे  
अचानकच जाणवलेली भावना पूर्ण होण्याची आशा आहे  
नको रोजचंच ते आयुष्य त्यात नवी बात हवी आहे  
आयुष्याच्या प्रवासातही आता तुझी साथ हवी आहे  
असही कधी जाणवेल वाटलं नव्हतं  
खूप लोकांचं ऐकलं पण कधी पटलं नव्हतं  
अंधान्या गुहेत जाताना दिव्यात वात हवी आहे  
आयुष्याच्या प्रवासातही आता तुझी साथ हवी आहे  
आरशात बघून स्वतःला उगाचच नटवणं आहे  
आणि परत कोणासाठी नसल्याने, निराश मनाला पटवणं आहे  
खूप जण गेले डोक्यात, एक व्यक्ती हृदयाच्या आत हवी आहे  
आयुष्याच्या प्रवासातही आता तुझी साथ हवी आहे  
रुचत नाही मनाला आता एकटीनेच झुरणं  
पटतही नाही अगदीच कुणावरही मरणं  
मुक्या भावनांच्या मनाला योग्य असा हात हवा आहे  
आयुष्याच्या प्रवासातही आता तुझी साथ हवी आहे  
या जगाच्या कोपऱ्यात कुठेतरी असशील तू,  
वेळ आल्यावर अनपेक्षितपणे दिसशील तू  
वाट बघेलमी या क्षणाची, पण तरीही डोळे पुसण्यासाठी हात हवा आहे  
आयुष्याच्या प्रवासातही आता तुझी साथ हवी आहे.

मनिषा श्रावण ठूबे  
तृतीय वर्ष , उपकरणीय आणि नियंत्रण विभाग



# माणूस हरवलाय

परिवर्तनाच्या प्रवाहात,  
बदलाच्या सागरात,  
सुखाच्या डोहात,  
माणूस हरवलाय.

माणुसकी पासून,  
माणसांच्या नात्यापासून,  
आपल्या लोकांतून.  
माणूस हरवलाय.

पैश्याच्या मायाजालात,  
स्वार्थाच्या अथांग सागरात,  
मी आणि मीच म्हणत,  
माणूस हरवलाय.

शोध सुरु आहे त्याचा,  
पण सापडतच नाही,  
लालचेच्या भोवऱ्यात,  
फासळ्यात तो वर येताच नाही,  
माणूस हरवलाय तो,  
सापडतच नाही...  
सापडतच नाही...

कावळे मोहिनी  
(तृतीय वर्ष अणुविद्युत आणि दूरसंचार अभि.)

# जीवनाचे सार

जन्माला आला आहेस  
थोडं जगून बघ  
जीवनात दुःख खूप आहे  
थोडं सोसून बघ  
चिमूटभर दुखण्याने कोसळू नकोस  
दुःखाचे पहाड चढून बघ  
यशाची चव चाखून बघ  
अपयश येते निरखून बघ  
डाव मांडणं सोपं असत  
थोडं खेळून बघ  
घरटं बांधणं सोपं असत  
थोडी मेहनत करून बघ  
जगनं कठीण मरणं सोपं असत  
दोन्हीतल्या वेदना झेलून बघ  
जगन मरण एक कोड असत  
जाता-जाता एवढच सोडवून बघ...

- अर्चना राठोड  
(तृतीय वर्ष अणुविद्युत आणि दूरसंचार अभि.)

# मित्र....

आपली तारीफ दाखवणारा हा आपला मित्र असतो,  
कि आपल्या चुका दाखवणारा,  
सांगा हा मित्र कसा असतो?  
संकटात मदत करणारा मित्र असतो,  
कि संकटाच्या पूर्वीच खुणावणारा मित्र असतो,  
सांगा हा मित्र कसा असतो ।।१।।

आपल्यासोबत स्पर्धा न करणारा मित्र असतो,  
कि स्पर्धा केल्याने आपल्याला कर्तव्याची जाण होणार,  
असा विचार सांगणारा मित्र असतो,  
सांगा हा मित्र कसा असतो? ।।२।।

जीवनाच्या रस्त्यावर जाताना समोर खड्डा आहे,  
असा सांगणारा मित्र असतो,  
कि खड्ड्यात पडल्यानंतर हात देणारा मित्र असतो,  
सांगा हा मित्र कसा असतो? ।।३।।

माझा विचार  
तुम्हाला सामान्य पासून असामान्य बनवतो,  
तोच तुमचा मित्र असतो !!!

स्वप्नील स. ठोकाडे  
तृतीय वर्ष , उपकरणीय आणि नियंत्रण विभाग

# आयुष्य...

आयुष्य जरा लहान आहे..  
विश्वासाच वाहन आहे..  
पण प्रेमाची तहान आहे..  
व्यक्ती तसा महान आहे..  
पण आदरच सन्मान आहे..  
काहीजण धनवान आहे..  
पण सूख त्यांच किमान आहे..  
गरीबांच जरा घाण आहे..  
पण कष्टाचा स्वाभिमान आहे..  
लहान तस छान आहे..!!!  
आयुष्य जरा लहान आहे..!!!

**अनिकेत अडोले,  
तृतीय वर्ष स्थापत्य अभियांत्रिकी**

# कधी कधी

कधी कधी हृदयात तुला जपावे  
कधी कधी अश्रू बनूनी वहावे  
कधी कधी वाटे हवे हात हाती  
तुझी साथ हवी सातोजन्मी

कधी कधी मणी तुझी गीत गावे  
कधी कधी आठवणींचे मेघ बरसावे  
कधी कधी झुळूक बनून वहावे  
तुझा स्पर्श होता मन तृप्त व्हावे

कधी कधी तू स्वप्नातून यावे  
कधी कधी हे स्वप्न खरे घडावे  
कधी कधी असावे तुझे नाम ओठी  
हा जन्म उराव फक्त तुझ्यासाठी

कधी कधी वाटे निशब्द बसावे  
नजरेतुनी मला सारे कळावे  
कधी कधी मनाचे साशंक सारे  
धुके हटोनी फक्त तू दिसावे

प्रज्ञा गिरी  
(चतुर्थ वर्ष स्वयंचल अभि.)

# बंधनं

वान्यावर उडणाऱ्या तुझ्या केसांना  
हाताने आता तू सावरू नकोस  
लाजेने चूर झालेल्या चेहऱ्याला  
ओढणीने उगाच तू लपवू नकोस  
रस्त्यावरती चालणाऱ्या लोकांना  
बघून तू घाबरू नकोस  
धडधड उडणाऱ्या तुझ्या काळजाला  
अजून बेचैन तू करू नकोस  
आकाशी ढग दाटून आले म्हणून  
तू आडोसा स्वतःला शोधू नकोस  
थेंबा-थेंबाने भिजवून घे स्वतःला  
रोमांच पावसाचा तू गमावू नकोस  
ओलांडून ये तू मर्यादांचा उंबरडा  
बंधनात आज तू अडकू नकोस  
परतून येणार नाहीत हे दिवस  
अनुभवल्याशिवाय त्यांना तू राहू नकोस।।

घोडके स्वप्नील  
(द्वितीय वर्ष संगणक अभि.)

# कोणास ठाऊक कसा...

कोणास ठाऊक कसा, पण प्रेमात पडला असा,  
सापशिडी खेळायला बसा, पण विचारू नका कसा।।

तिने हलवली मान, हा म्हणाला छान छान,  
तिने हलवले केस, ह्याचा हलवून टाकला base,  
कोणास ठाऊक कसा, पण सुरुवातीचा डाव असा,  
सापशिडी खेळायला बसा, पण विचारू नका कसा ।।१।।

WhatsApp वर तिने दिला रिप्लाय, हा करतोय Hi ,Hi,  
तिने हो लावला फोन, हा मारतोय Recharge दोन,  
कोणास ठाऊक कसा, पण मधातला डाव असा,  
सापशिडी खेळायला बसा, पण विचारू नका कसा ।।२।।

ती म्हणाली 'डेट', हा गेला कोमातच थेट,  
आता तिने हो शोधलाय नवा, हा घालतोय त्याला हवा,  
कोणास ठाऊक कसा, पण suspense होता असा,  
सापशिडी खेळायला बसा, पण विचारू नका कसा ।।३।।

शेवटी तो म्हणाला मला भेट, ती म्हणाली आता 'मेट',  
हा म्हणाला "Sweet heart I Love You",  
ती म्हणाली "HAPPY RAKSHABANDHAN TO YOU",  
कोणास ठाऊक कसा, पण वेडाच बनवला असा,  
सापशिडी खेळायला बसा, पण विचारू नका कसा...

दिपक अशोक लोखंडे  
(तृतीय वर्ष यंत्र अभि.)

# चारोळी

- अजूनही आठवतो मला तुझातला तो खट्याळ पणा,  
अजूनही आवडतो मला तुझ्या मनाचा लडिवाळपणा,  
अजूनही आठवते मला तुझ्या गालावरची ती सुंदर खळी,  
आणि त्या खळी वर मोहून तुझ्या प्रेमात पडणारा मी,  
अजूनही आठवतो मला...
- सुंदर चांदण राती तुझी आठवण सुटत नाही,  
चंद्रासम तुझा चेहरा सरता मनातून सरत नाही,  
ह्या शीतल रातराणीच्या गरव्यात मज तुझाच आभास  
होई,  
स्पर्शातून मजला तुझ्याच धुंदीत बेधुंद करत जाई.....

सौरभ भोसले  
(चतुर्थ वर्ष अणुविद्युत आणि दूरसंचार अभि.)



# Teachers' Section



# मेजर गर्जे साहेब

पाच फूट उंची, तीस इंच छाती  
मेजर गर्जेना पाहून लोक खातात माती ॥१॥  
हसतमुख चेहरा, कामाची गती  
मान सन्मान देणे हीच त्यांची नीती ॥२॥  
तत्पर सेवा हे त्यांचे तंत्र  
साधी राहणी उच्च विचारसरणी हाच खरा मंत्र ॥३॥  
दिसतात ते साधे भोळे  
जीवनातले सोडवितात ते कोडे ॥४॥  
मार्गदर्शन हा त्यांचा व्यक्तिगत गुण  
सर्व आम्ही समान हीच त्यांची मन ॥५॥  
वयाने मोठे म्हणून देतात सारे मान  
पण कधी कधी खातात ते तंबाखू पान ॥६॥  
मान दिला नाही तर लगेच टोकणार

आणि सरळ म्हणतात यापुढे असं नाही चालणार ॥७॥  
स्मित हास्य, व्यक्तिगत खुलासा  
आनंदी आनंद गाडे, हा त्यांचा वास ॥८॥  
साधे सरळ, शांत विचारी  
वाटत ते भगवंताचे पुजारी ॥९॥  
थट्टा मस्करा हा त्यांचा स्थायी भाव  
त्यांच्या मनात कुणाविषयी नाही दुजाभाव ॥१०॥

मनोज चुटे  
(उपकरणीकरण व नियंत्रण विभाग)

# आई तू कशी आहेस गं !

आई तू कशी आहेस ग...?

कोणाची बहीण, कोणाची मुलगी, कोणाची मैत्रिण  
कोणाची माता अशी विविध रूप तुझी, मी तुला वर्णु शकत नाही.

आई तू कशी आहेस ग...?

कधी कडक, कधी मृदू, कधी मायाळू, कधी दयाळू  
की मी तुला वर्णु शकत नाही.

आई तू कशी आहेस ग...?

निसर्गाने दिलेल्या देणगीमुळे खूप सुंदर, खूप कौशल्य,  
खूप बलवान, खूप कार्य तत्परता जी की मी तुला वर्णु शकत नाही.

आई तू कशी आहेस ग...?

कधी बडबडते, कधी कटकते, कधी स्तब्धते, कधी चंचलते  
जी की मी तुला वर्णु शकत नाही.

आई तू कशी आहेस ग...?

कधी दुर्गावतार, कधी सरस्वती, कधी लक्ष्मी,  
कधी आशिर्वादावती जी की मी तुला वर्णु शकत नाही.

आई तू कशी आहेस ग...?

रूप तुझे महान, गीत तुझे महान, अर्थ तुझे महान,  
कर्म तुझे महान, छंद तुझे महान जी की मी तुला वर्णु शकत नाही.

आई तू कशी आहेस ग...?

उपकार तुझे महान, ऋण तुझे महान, निर्मिती तुझी  
महान, आशिर्वाद तुझे महान जी की मी तुला वर्णु शकत नाही.

आई तू कशी आहेस ग...?

तुझीच आठवण करता भावुक झालो तितका  
आशिर्वाद तुझे सततां विसरू शकत नाही जी की  
मी तुला वर्णु शकत नाही.

आई तू कशी आहेस ग...?

आहेस तू मोठी, मी मात्र छोटा,  
तुझीच हि किमया, तुझविन अधुरा  
जी की मी तुला वर्णु शकत नाही.

सारांश- आईचा आशिर्वाद, वडिलांची कृपा,  
मित्रांचे सहकार्य.....

झालो मी निशब्द जी की मी तुला वर्णु शकत नाही.

**प्रा.ना.काराजनगी**  
**सहाय्यक प्राध्यापक**  
**उपकरणीकरण व नियंत्रण अभि. विभाग.**



# Technical

# Content

**1. Buyers Go Happy**  
helping online shoppers  
to save money through  
online piggy bank.

**2. The world's first**  
production-ready  
variable compression  
ratio engine.

# Buyers Go Happy helping online shoppers to save money through online piggy bank.

I could give up shopping but I'm not a quitter."

"I've been shopping all of my life and still have nothing to wear."

These are some common lines spoken by the shopaholics, who can't live without shopping or by adding at least 1 item in their cart daily. As being an Indian it is a fact that we all love discount and sales. Indians are born with a capability of bargaining even over a 50 rupees item because we value our every single rupee.

The only one e-commerce platform which is concerned about the shoppers' needs is 'BuyersGoHappy'. It is a platform which is designed to enhance our shopping experience.

BuyersGoHappy offers us with latest coupons, mind-blowing deals, attractive offers.

Shoppers are provoked to use this platform because it provides shopping over many fields like fashion, travel, sports, living, baby care etc.

Such type of fields available with mindboggling offers and great deals gets shoppers provoked and they enjoy the delight.

Let us have a look at some pros points of BuyersGoHappy:

Earn extra cashback which Indians love the most.

Offers wide shopping websites range of 500+

User-friendly interface

Customer satisfaction is their motto

None of the e-commerce websites offers a huge amount of cashback but they do.

In childhood, we had our piggy bank in which we used to save our single rupee which our mom or dad gave us to buy a toffee. That piggy bank after a year had a total of at least 200 rupees in it, which proves that piggy bank work as a massive storage for our money by just starting from a single rupee and end up with hundreds or thousands.

In the same case, BuyersGoHappy work as a piggy bank buy giving us large cashback and helping us by spending an adequate amount on any item and keeps an eye that no extra amount is demanded by any website.

This is the only thing which has kept shoppers addicted to BuyersGoHappy and still winning hearts all over the world.

**Omkar Pingale**

**S.E. Inst. And Control**

# The world's first production-ready variable compression ratio engine

The world is busy these days thinking about an electric-car future, but the vast majority of the vehicles on the road are powered by internal combustion engines and will be for decades. And before you start thinking that IC engines



are yesterday's dirty tech, don't forget that automakers have been continuously innovating them for a century. They no longer belch plumes of black smoke, and in many cases, automakers have been able to extract impressive MPGs from them. Ironically, with all the extra weight that modern safety and technology features are adding to vehicles, fuel economy from efficient IC motors has gone down. So car companies are working hard to claw back good gas mileage, in large part because they're up against more stringent government fuel-economy and environmental regulations.

When you think about it, just about all the improvements made to the internal combustion engine in the last hundred years have been bolt-on items that left the rotating mass -- the pistons, crankshaft and rods unchanged. Yes, the camshaft moved in some engines from below the cylinder head to above it. But regardless of the location, the cam still looks the same and does the same thing: open the valves.



The carburettor has given way to fuel injection; electronic ignitions have replaced the points and condenser. In other words, nearly all the components and systems that make the internal combustion engine run have seen massive improvements that also have improved the engine's efficiency. But take a crankshaft and rods from an engine made a century ago and compare them to today's parts, and you won't see much change.

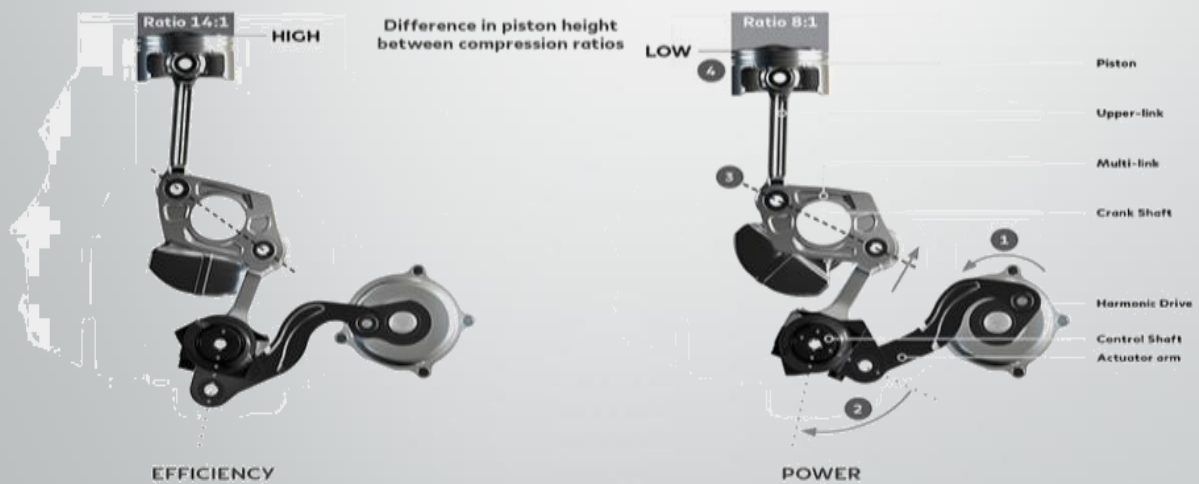
And that's why the variable compression engine debuting next year in the 2019 Infiniti QX50 is a really a big deal a major reworking of the basic operating principles of the piston-driven internal combustion engine. That hasn't happened in our lifetime. And, now that we are at the dawn of the electrification age, it may not happen again.

INFINITI calls its 2.0-liter four-cylinder engine the VC-Turbo, and its engineering layout is ingenious. An elliptic device attached to the crankshaft where the rods go changes the distance the pistons travel in the cylinder by as much as 6 mm, or about a quarter of an inch. That varies the compression from 8.1 to 14.1. The result is a V-6-like performance with four-cylinder diesel-like fuel economy with none of the image baggage or cost of the diesel.



INFINITI's new VC-Turbo (Variable Compression Turbo) is the world's first production-ready variable compression ratio engine. Promising to be one of the most advanced internal combustion engines ever created, VC-Turbo technology combines the power of a high-performance 2.0-liter turbo gasoline engine with the torque and efficiency of an advanced diesel powertrain – without the equivalent emissions.

Roland Krueger, president of INFINITI Motor Company, commented: "The pioneering new VC-Turbo powertrain represents a leap forward for engine development. Vehicle engineers believe the breakthrough in internal combustion technology would come from mastering the variable compression ratio. This new technology will be available in new INFINITI models from 2018."



## Comparison of VC-Turbo technology in high and low compression ratios

When a change in compression ratio is needed, the Harmonic Drive turns and moves the actuator arm.

The actuator arm rotates the control shaft.

As the control shaft rotates, it acts upon the lower-link, which changes the angle of the multi-link

The multi-link adjusts the height the piston can reach within the cylinder, this changing the compression ratio.

Transforming on demand, INFINITI's VC-Turbo technology uses an advanced multi-link system to seamlessly raise or lower the reach of the pistons, detecting the car's driving condition and driver inputs, and instantly selecting the most suitable compression ratio. The engine is able to offer any compression ratio between 8:1 (for high performance) and 14:1 (for high efficiency).

INFINITI's VC-Turbo technology marks a significant leap forward for the internal combustion engine, joining other renowned powertrain innovations such as liquid-cooling, fuel injection, catalytic converters, and turbocharging. The arrival of the variable compression ratio engine will establish new benchmarks – for power, efficiency and emissions – against which future powertrains will be measured.

Thank you ...!!!!

**Rutuparna S. Domkondekar**  
**S.E. Auto**



# Sanket Dongare S.E. Automobile



# Pratik Walunj

## T.E. E&TC



# Ashlesha Borade

## S.E. E&TC



SHUBHAM PATIL

# Sanket Gaikwad

## T.E. Automobile





# Rutuja Bhujbal

## T.E. E&TC



# Sonali Suvarnkar

## T.E. Civil



Suvarnkar Sonali pandurang  
TE (Civil)

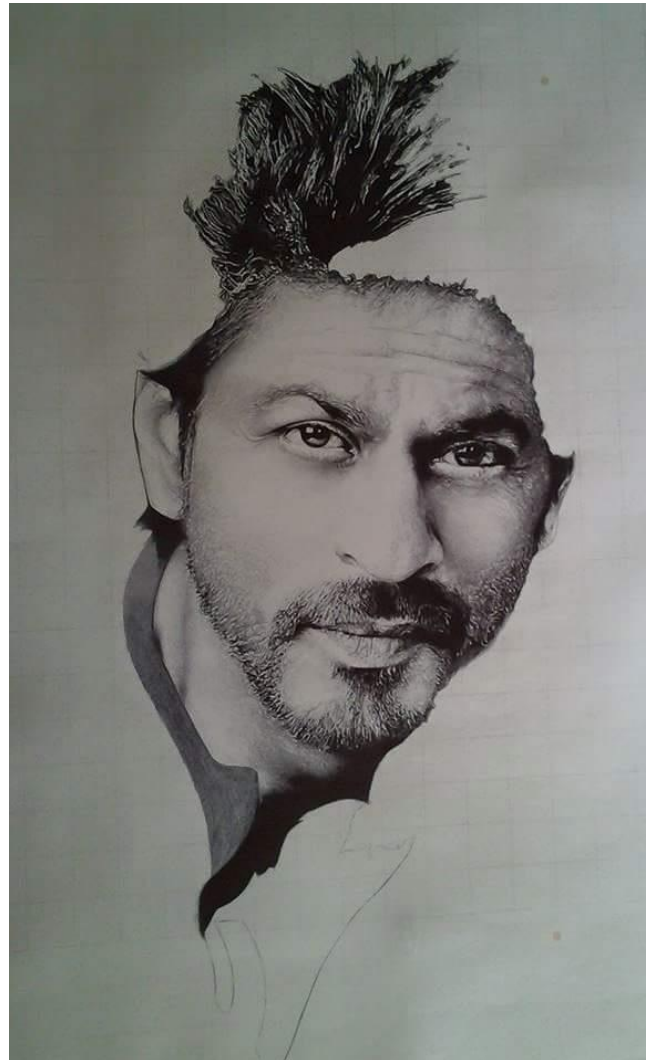
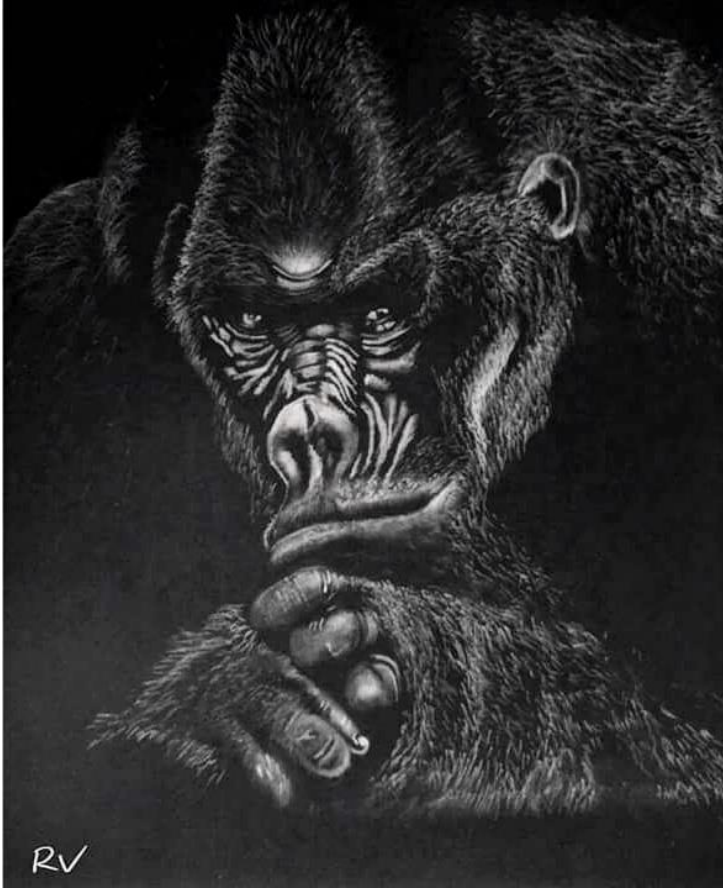
# Yogesh Kasabale

## T.E. Instru. & Control



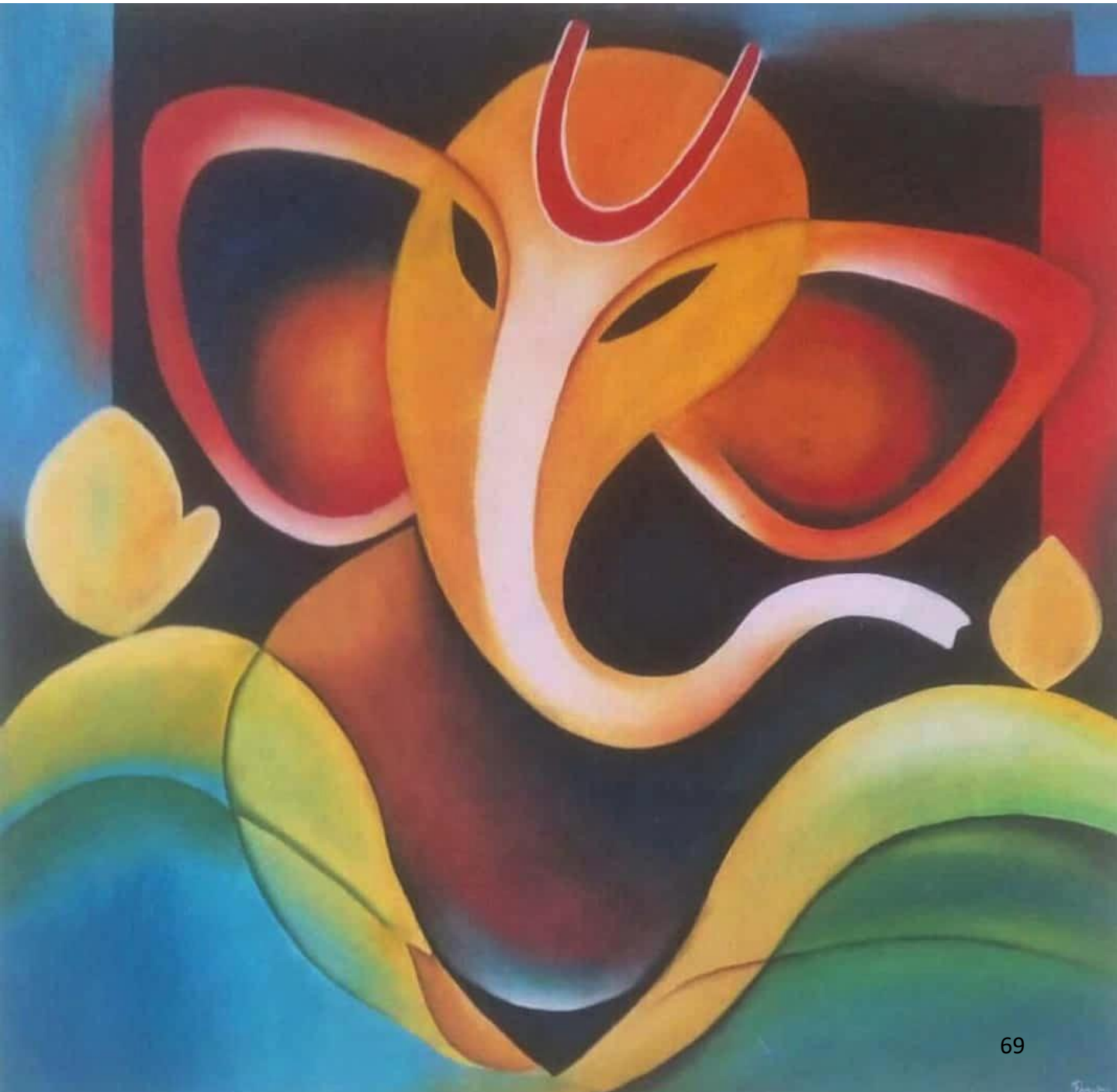
# Rohan Vidhate

## T.E. Computer



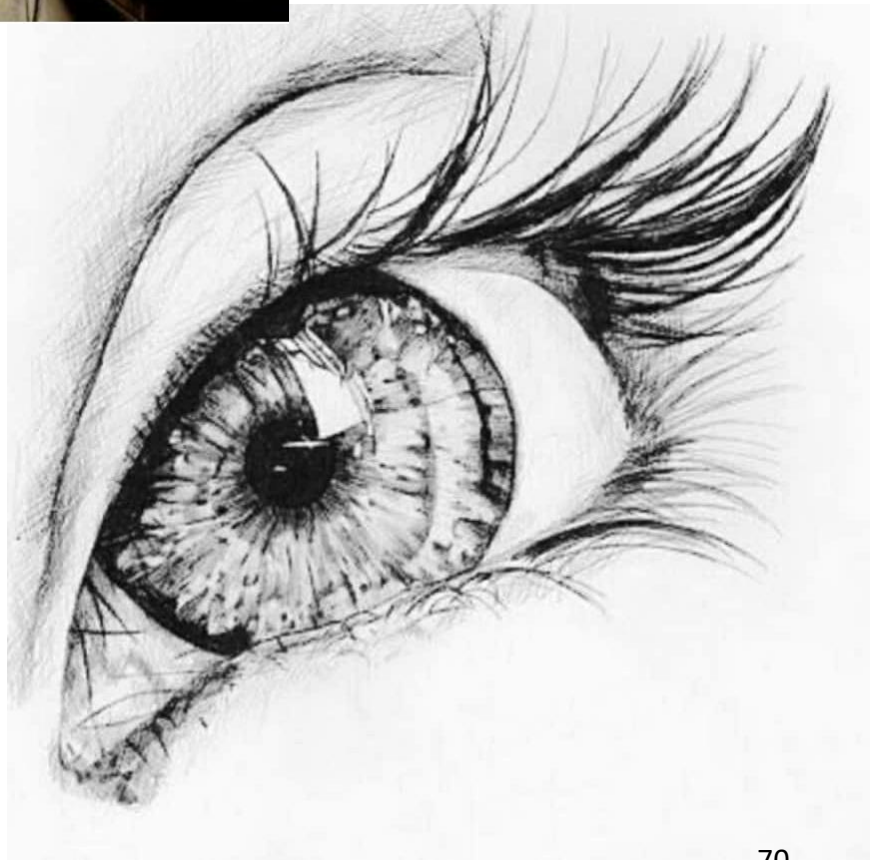
# Pranjali Landge

## S.E. Civil



# Sahil Bhatt

## S.E. Civil



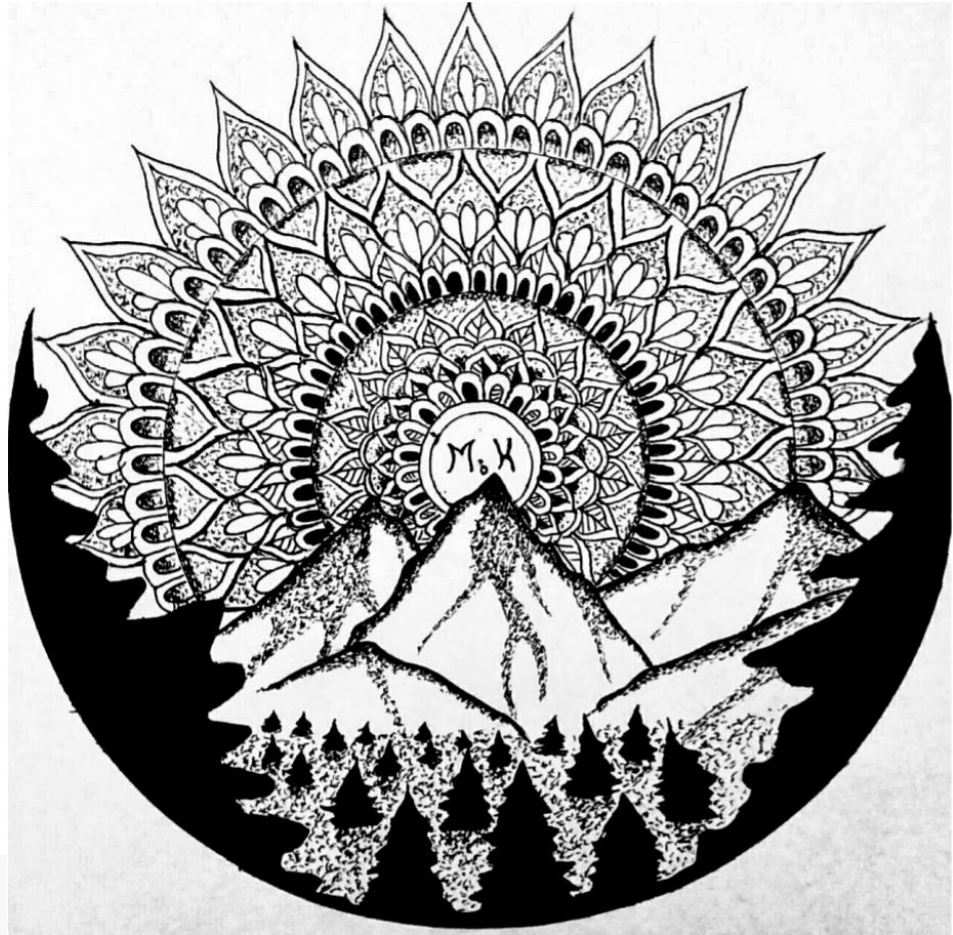
# Akash Naikwadi

## B.E. E&TC



# Mukul Kadaskar

## S.E. Computer





# Devendra Pathave

## S.E. Civil



# Shashank Choudhary

## T.E. Mech



A 3D rendered scene featuring two white, stylized human figures. The figure on the left is holding a large red gear, while the figure on the right is holding another large red gear. In the background, there are two more red gears of different sizes. The entire scene is set against a plain white background with a light purple floor at the bottom. The text 'Technical Event Reports' is overlaid in the center in a bold, black, sans-serif font.

# Technical Event Reports

# Team

**WE BELIEVE IN ACCELERATION, NOT IN BRAKES....**

# Phalanx

- Team Phalanx is a subsidiary of the Motorsports Club of GCOERA & SAE colligate Club of GCOER, Avasari.
- The club comprises 113 students from various branches.
- Club has been managing participation and performance of our institution in various automotive design competitions like national level Go-Karting competition since it was established.
- Team has been consistently participating in national level championship since 2014.
- It has given an immense knowledge in technical field due to exposure to national level competitions.

## OUR PARTICIPATIONS:

- 2014: Participated in EK14 by Elite techno group.
- 2015: Participated in Indian Karting League by Vayuputra Motorsports.
- 2016: Participated in EK15 by Elite Techno Group.  
Participated in Auto India Racing Championship by DPES.
- 2017: Secured 8<sup>th</sup> rank Indian Karting Championship 2018 virtual by Nexus.  
Secured AIR 19<sup>th</sup> in NKRC 2018 virtual.
- 2018: Participated in Auto India Racing Championship 2018.

# Our Achievements:

- **Ranked AIR 24 in Indian Karting League by Vayuputra Motorsports at Bengaluru.**
- **Ranked AIR 16 of 168 National Teams in EK15 by Elite techno group, at RPM Racing, Bhopal.**
- **Ranked AIR 11 in Auto India Racing Championship 2017.**
- **Won the BEST INNOVATION AWARD in Auto India racing championship (2017) competing against team at national level.**
- **Ranked AIR 7 of 162 in National Kart Racing Championship at endurance (2017).**
- **Ranked AIR 8 of 130 in Indian Karting Championship at Virtual 2017.**

**Won AUTO SKID PAD Award in Auto India Racing Championship 2018, at Pune.**

# ROBOTICS RESEARCH LAB

- Government College of Engineering & Research, Avasari (Khurd) has witnessed the commencement of Robotics Research Lab since 2013.
- Under the guidance and co-operation of Institute's Principal, staff and workshop department the smooth working of Lab is executed.
- Every year the Robotics Research Lab participates in National Robotic Contest ROBOCON.
- The new & challenging theme is launched every for this contest.
- In 2016, under the leadership of Sagar Jadhav team won the "Best Robot developed by Rural Institute" award, whereas in 2017 under the leadership of Rahul Chavan the team defeated many reputed teams and proved to be one of the top teams.
- In 2018 under the leadership of Kaustubh Gunjal, a team of 37 members of different engineering streams developed two robots i.e. Manual robot (19 kg) and Automatic Robot (23.6 kg) which they named as Terence and Matilda respectively. The overall expenditure was distributed in two parts 1.5 lakhs for R&D and 3.5 lakhs for Robots development. The financial support by college summed up of 1.9 lakhs and rest was raised by the contribution of team members.
- In 2018 ROBOCON team defeated the well-known colleges like IIT Indore and NIT Hamirpur, and secured the AIR 2 in the League matches. In 2018, the team also bagged the ROBU.in award for "Smart and Simple Robot" which consisted of prize money worth Rs.50,000 along with the trophy which brought laurels to the college. The team worked with lots of enthusiasm while solving the problem statement of "NÉM CÒN".
- **Other projects:** Except for Robocon team also worked on many projects which significantly includes Windmill, Gandhi Topi Making Machine, Automatic weight and BP indicator, etc.
- The future projects of Robotics Research Lab include the Balloon Satellite, Quadcopter, Electric Car, Weather Board, etc. The team is motivated to do many projects in future.

# Team's Achievements

- 2013 : Secured AIR-17 in National Robotic Contest ROBOCON 2013.
- 2014 : Secured AIR-78 in National Robotic Contest ROBOCON 2014.
- 2015 : Secured AIR-22 in National Robotic Contest ROBOCON 2015.
- 2016 : Secured AIR-11 in National Robotic Contest ROBOCON 2016 & won National Award for "Best Robot developed by Rural Institute".
- 2017 : Secured AIR-13 in National Robotic Contest ROBOCON 2017.
- 2018 : Secured AIR-15 in National Robotic Contest ROBOCON 2018 & won Robu.in award for "Smart and Simple Robot" along with Rs.50,000 cash prize .



Shan & MIT Academy of Engineering  
PRESENT

NATIONAL ROBOTIC CONTEST  
**ROBOCON**



Academy of Engineering  
an Autonomous Institute

# TIFAN

*TIFAN stands for “Technology Innovation Forum for Agricultural Nurturing”. Its an initiative of SAE India for betterment of agricultural sector of India. As a part of Innovation SAE organises annual contest to bring out the Technical Talents of India. The Theme of the year was Onion Harvesting. The contest aims at bringing out reliable solution for harvesting of onion crop as the harvesting of onion crop is the labour intensive and tedious operation. A total of about 43 teams from various parts of India had participated for the event.*

*Regarding this, Government College of Engineering and Research, Avasari formed a team named 'Aayudh1.0'.*

*Faculty Co-ordinators*

- 1) Mr. Abhijeet Shaligram Kousal*
- 2) Mr. Arackal Jos Mathew*

*A Brief Overview of the Design and a Photo*

*The machine consists of mainly a digging system, Conveying System and unloading system for onions along with all the necessary systems of vehicle. The machine presented at the time of main event is as shown in following picture*





# ***An overview of the main event***

*After successful completion of virtual event, team Aayudh 1.0 represented the college in the main round held at MPKV, Rahuri on 21<sup>st</sup> to 23<sup>rd</sup> 2018. The event mainly deals with design aspects, manufacturing involved, costing and sales details and actual demonstration in the field. Team Aayudh successfully completed all the static and dynamic tests including Design check, Noise and Vibration test, Braking test, Innovation test, Manoeuvrability test etc. and successfully completed actual harvesting too.*

## ***Award***

- *Ranked AIR 7*
- *Received Appreciation Award from SAE India Off Highway Board*

## ***The out come of participating in the Event***

- *The event helped us to learn to work as a team*
- *The event helped us to narrow the gap between theory and Practise*
- *The event enriched our manufacturing skills*



# TEAM KARSHYAN

## ABOUT COMPETITION :

TDC Tractor design competition is organised by SAE India southern section for enthusiastic budding engineers in India. Competition ask student to analyse, design, develop, built, test and present their tractor in event

## THE TEAM

TEAM KARSHYAN is a subsidiary of the SAE COLLEGIATE CLUB OF GCOEAR, AWASARI. Motorsports club of GCOER, Avasari has been representing our institute in SAESS TDC first time in INDIA as TEAM KARSHYAN. Team comprises of 25 budding engineers focusing on the design and manufacturing of “TRACTOR”.

## TEAM PROGRESS & Achievement

During the design stage, the team conducted a survey among the local farmers in order to design a tractor best meeting the farmers’ needs. Finally the team bagged 3<sup>rd</sup> position in National level Tractor Design Competition 2018 which was held at SRM University, Chennai from 21<sup>st</sup> June to 23<sup>rd</sup> June 2018.

## Overall Technical Specification

<b>DIMENSION</b>	Length 1966mm Front track width 1040mm Rear track width 1080mm	Width 1210mm Front overall width 1140mm Rear overall width 1280mm	Height 750mm Wheelbase 1380mm
<b>ENGINE</b>	simpson sc108	17hp2800 rpm	746.66cc
<b>POWER TRAIN</b>	4fd*2r (l+h) synchromesh gearbox with difflock rwd		
<b>OVERALL PERFORMANCE</b>	max speed- 25 kmph gradability – 25 degree stopping distance- 3.2 m	ground clearance-245 mm	weight- 700kg turning radius- 2.9 m
<b>BRAKE SYSTEM</b>	dry disc type brake		
<b>TYRES</b>	5.20*14 front +8*18 rear		



**The team**



**Farmers survey**



**Visit to tractor service center**

# NSVC

National solar vehicle challenge organized by Dynamist Motorsports Pvt. Ltd New Delhi, aims at spreading awareness about the limitation of fossil fuels and bringing into light the alternate sources of energy like the solar energy, bio-diesel etc. thereby sharing the knowledge of the benefits and importance of using such alternative energy sources and also the importance of keeping the EARTH GREEN. Every year they organize National level events for the young enthusiasts all over the country in the field of designing and building their automobiles.

## Development

NSVC is an inter collegiate competition in which student from various part of India participate to develop a 3-4 tire affordable solar battery powered car. For participation in the event, a 4-tires solar battery power solar car was made, the construction of which was started in the beginning of January. The design for this car was done in Virtual Round in September 2017 and manufacturing was done in January in college workshop.



Initially the chassis of the car was made followed by mounting of battery, shaft, solar panel in sequential order then mounting of suspension, knuckle manufacturing etc. The analysis of all components was done in Ansys at extreme conditions. After finishing the mechanical work, electric work is done by students. By the end of March, the car was successfully completed with the quality testing, acceleration test, brake test, suspension Test, endurance test etc. The car can run 80-90 Km after charging with maximum speed of 45 kmph.

### Achievement

With this car design we achieved AIR 25<sup>th</sup> rank in Virtual round and in Dynamic round our team got Best Team Spirit Award.

# TEAM RADIANCE RACING

The most awaited flagship ATV competition of the INDIA, BAJA SAE INDIA 2018 commenced on Wednesday, 24th January 2018 to Monday, 29th January 2018 at the NATRAX (National Automotive Testing Trax), Pithampur, Indore (MP.)

The whole competition was taken in two stages, initially a virtual design round was carried out to evaluate the designing capability of the participating teams and colleges across the India. Total 387 teams participated in Virtual BAJA 2017 and only 160 teams were selected based on their design. Our team Radiance Racing stood 7th over all across the country.



It was a glorious event and we did a lot of mistakes being a rookie. We corrected them and still we are doing the failure analysis and also implementing it in our motorsports club. All this endeavour wouldn't had been possible without BHARAT FORGES help and our faculty advisors support. Special thanks and huge applause for Dr. D.R. Pangavhane Sir, Mr. A.J. Bhosale sir and Hon. Principal Dr. Pant sir. And all of the team members of the team Radiance Racing. With their collective efforts this ATV building dream came true for very first time in history of GCOEARA. We are very thankful to Bharat Forge for supporting us and putting their trust in us.





**NSS**

NATIONAL SERVICE SCHEME

राष्ट्रीय सेवा योजना



# Government College of Engineering& Research Awasari (Khurd)

## Report on NSS Activities in academic Year 2017-18

### 1. Regular National Service Activities

1. Yoga orientation program was organized on 21 June 2017 for the students of the institute. About 100 participants practiced yoga including faculty, staff and 45 volunteers.
2. Plantation program was organized in the month of 1<sup>st</sup> July 2017 where about 100 plants were planted and duly taken care during the entire year.
3. During 10<sup>th</sup> July to 13<sup>th</sup> July 2017 cashless training for boys and girls of Adivashi Hostel Manchar. Training was given in four sessions where four groups of 12 volunteers have explained different ways of digital transactions to hostellers. About 90 boys and girls were present for training.
4. During 17<sup>th</sup> July - 31<sup>st</sup> July 2017 plant adoption scheme was implemented where our volunteers visited students and faculty and plants were distributed among the interested students/faculty for taking care throughout the year. About 87 plants were distributed by this way.
5. Bharat Swacha Pandarwada was observed inside the campus from 1<sup>st</sup> August to 15<sup>th</sup> August where Campus Cleaning Drive was organized twice in a on working Saturdays where campus was cleaned by removing/destroying plastic as well as other waste materials. During this period poster making, film making and poster making competitions were also organized. On 15<sup>th</sup> August a separate cleanliness drive conducted around hostel area in which faculty was also involved along with volunteers and students.
6. Road safety awareness drive was organized on Manchar Awasari road on 17<sup>th</sup> September 2017 where 46 volunteers have given instructions about road safety to people passing on the road. Activity was lasted for whole day 8.00 AM to 8.00 PM
7. On 25<sup>th</sup> September 2017 4.00 PM to 8.00 PM Solid waste management training was given to shopkeepers and Canteen/Mess owners near by the Government Engineering college and Polytechnic Awasari.
8. On 25<sup>th</sup> and 26<sup>th</sup> September Health check up Camp was organized in college for first year (348) and Direct Second year (123) students.
9. 27<sup>th</sup> September 2017 Road approaching to Government Engineering college and Polytechnic Awasari was cleaned from morning from 8.00AM to 10.00 AM. On 30<sup>th</sup> September 2017 Cleaning of campus of Palastika Anath Ashram near Manchar was completed.
10. On 28<sup>th</sup> and 29<sup>th</sup> September Health check up Camp was organized in college for students staying in institute Boys hostel and Girls hostel respectively.
11. On 7<sup>th</sup> October our volunteers visited primary and secondary schools in Avasari and explained the importance of safety during Dipawali and environment friendly Dipawali.
12. During 21<sup>st</sup> October 2017 to 15<sup>th</sup> December 2017 various online activities such as quiz and survey etc., about road safety under the project of Indian Road safety awareness campaign were completed.
13. On 31<sup>st</sup> December our volunteers helped Manchar police in managing the traffic on Pune Nashik Highway from 8.00 Am to 10.00 PM.
14. 30<sup>th</sup> January a blood donation camp was organized with the help of Jankalyan Blood bank Pune. About 168 bottles blood was collected. At the Same time SDP awareness was also done.
15. Single platelate donation awairness campians was organized at different institutes and places such as i) Govt. Engineering College Awasari (23/02/2018), University level NSS camp at Narayangaon (28/02/2018), Govt. polytechnic Awasari (01/03/2018), CT Bora college Shirur (17/03/2018),
16. section and office along with teaching and non teaching staff of the institute was trained for the cashless transactions especially training of

# **Government College of Engineering & Research Awasari (Khurd)**

## **2. Special Activity (SKILL DEVELOPMENT PROGRAM)**

On 12<sup>th</sup> and 13<sup>th</sup> January 2018 skill development program was conducted for the High school students and teachers from the Ambegaon Taluka where one teacher and three student participants from each school enrolled for the program and about 50 schools with 150 students and 50 teachers were present for the program.

During two day schedule we have organized various program like expert talk on the subjects personality development, Study Techniques, Yoga and martial arts practice, importance of platelet donation, environment awareness, e-learning etc. A special session of Cashless training and e-governance was organized for teachers.

## **3. CAMP ACTIVITY**

Place of camp: **Wadgaon Kashimbeg, Tal. Ambegaon Dist. Pune**

Duration of the camp with dates: Seven (7) days, 12/02/2018 to 18/02/2018

Programme and activities undertaken in camps:

### **Abstract:**

The Special NSS Camp is one of the important activities conducted under NATIONAL SERVICE SCHEME. Every volunteer is very much keen and interested to participate in the special camp. This year our Special Camp was organized at village **Wadgaon Kashimbeg** in Ambegaon taluka of Pune district which is about 9 km from the institute from 12/02/2018 to 18/02/2018. The major attraction of the village is its religious importance in **Ashtavinayak Yatra**, the **Swayambhu Moraya** Mandir is believed to be a part of Lenyadri Ganesh Mandir. The village is blessed with the abundance of water from the river Ghod and has a rich heritage. Although this was our second year of camp we have undertaken taken a task to repair the road on a Bandhara connecting to nearby village Sakore by making a concrete layer on entire road of about 130x2 meters. Along with other tasks like cleanliness of village, cashless transaction training for villagers, Women empowerment session, plantation in Zilla Parishad school and uploading the history of village on Wikipedia.

### **Day 1 (12/02/2018)**

All of the 25 members along with NSS program officer faculty and staff associated with

## **Government College of Engineering & Research Awasari (Khurd)**

Camp activities reached the camp site around 2.00 PM. After making staying arrangements of all volunteers the opening ceremony was conducted in the presence of Principal Dr. A.S. Pant, Village Sarpanch, members of Grampanchayat and other dignitaries from village and institute in the Grampanchayat hall. Where NSS volunteers discussed about the camp schedule and activities planned during their stay in the village with the dignitaries. In the evening there was a survey of village and meeting for planning for next day work.

### **Day 2 (13/02/2018)**

The day started with a morning awareness rally in the village by all the volunteers where all important roads and residential zone of village was covered under the rally, during the rally volunteers were giving various public awareness slogans. As per schedule decided volunteers started cleanliness of the village grave-yard where all the bushes and garbage from the grave-yard was removed with in 4.30 hrs of cleanliness drive. Prof. T.T Waghmare Assistant Professor Electrical Engineering Department visited the site and motivated the volunteers by helping them to clean the graveyard. In evening session survey of village was planned where volunteers interacted with the villagers on various issues faced by them and informed them that various activities are planned for benefit of villages such as: Women empowerment, Digitization , Career guidance, Cashless transaction and Cultural activities

### **Day 3 (14/02/2018)**

The main work of the repair of road on the Bandhara on the Ghod river was started early in the morning. Volunteers were divided in two teams, team one went to the bandhara for taking out the clay/mud on the small bridge and the second team went to Shambhu Mahadev near the village Temple for cleaning the temple premises where the garbage of food wrappers dispersed here and there by the people on the occasion of Mahashivrathri. Second team finished their work with in first two hrs i.e. at 10.00 AM and then joined to team one for the work of removal of clay and mud on the bridge. There was large amount of clay deposited on the bridge since it was not removed from long period. About half of the work of removal of clay was completed on day 2 till the lunch. In the evening from 4.30PM to 5.30 PM there was a session for volunteers and villagers in which Dr. S.V. Karmare Associate Professor, Mechanical Engineering Department of Govt. College of Engineering and Research Awasari delivered a lecture on the topic of 'Energy saving techniques' in day today life it was very good interactive session. In the evening there was very good interactive session by our volunteers for the villagers on the topic of digitization in which the following points were covered:

1. USSD (\*99#) - transfer of amount using mobile
2. E-License
3. Difference between credit, debit and ATM Cards.
4. Various government schemes for farmers.

About 100 villagers have attended the session and the feedback says that it was very much beneficial to them.

# **Government College of Engineering & Research Awasari (Khurd)**

## **Day 4 (15/02/2018)**

The remaining work of removal of clay from the bridge started on day three early mornings after the breakfast about 8.30 AM and same was continued till 12.00 PM. Volunteers have removed few tonnes of clay from the bridge in two days the approximate labour cost for the clay removal work is Rs.10000/-. After 12.00 PM volunteers went at Zilha Parishad Scholl where tree plantation program was organized with the help of Forest Department. The tree plantation was an initiative by the forest department officials and we were invited for this noble cause. Volunteers planted about 25 trees in the school premises and then they attended the small session conducted by forest officer Mr. Momin about the green army and the also registered as a volunteer for the green army. In the evening, the female volunteers of the NSS camp took a session for women's in the village. In which they covered following topics:

1. Sanitary pad awareness
2. Women empowerment
3. Women health and related problems
4. Career guidance for girls.

## **Day 5 (16/02/2018)**

For better deposition of concrete layer on the bridge surface/road it was necessary to remove the entire clay from the bridge surface therefore it was necessary to wash the bridge surface with water the approximate cost of washing is about Rs. 5000/-. On day 4 work of washing the bridge initiated at 8.30 AM after break-fast and it continued till 12.30 PM. In between 5-6 volunteers went to help villages to fill the trolley with coarse aggregate and within 40 minutes of time they filled up the entire trolley. Since the road on the bridge is the shortest distance route to nearby village most of the villagers use this road and it created a lot of hurdle in the work therefore it villagers requested project engineer of Dimbhe dam Mr. Kokane to visit the site and instruct trace passers not to use this road till the work is in progress and so he visited and place his two watchmen on the bridge. Meanwhile the other material required for concrete layer was also reached at the work site. Since only two days were left and there was entire bridge to lay the concrete layer volunteers decided not to conduct discussion session after the lunch and they reached on the bridge at 4.40 PM and then the actual work of making concrete layer was initiated. About 30 fit of concrete layer was completed within 2.00 hrs. In between Dr. S.B Kharmale Assistant Professor, Civil Engineering Department visited the site for inspection and he guided volunteers about the making of layer. The specification for the Material used for the work is as following:

1. Fine aggregate - 1.5 brass, 2. Coarse aggregate - 1.5 brass, 3. Cement- 15 bags
4. Dr fixit- 5.5kg, 5. Length of road- 130m, 6. Width- 2m, 7. PCC thickness 2.5 Inch,
8. Cost of material Rs.20,000/-.

## **Day 6 (17/02/2018)**

On Sixth day Work started early in the morning it was from mixing the mixture to giving final touch to the road every work was done by the volunteers. All volunteers gave their

## Government College of Engineering & Research Awasari (Khurd)

best and till lunch volunteers completed almost 35% of work. In the morning session our Principal Dr. A.S. Pant visited the site and worked with volunteers for about an hour and encouraged them. Here also the evening session was sacrificed in order to complete the work in the evening some of the villagers also came to help us in which some of the experienced masons from the village were also there with the help of villagers we completed almost 75% of the road and by the end of day 6 major damaged portion of the road was completed. Despite of cancellation talk on the topic 'right to information act' Dr. N.P. Futane, Gymkhana In-charge visited the camp site and encouraged us. In the evening Head of Civil Engineering Dr. Deulkar visited the site and discussed with volunteers and given a suggestion to complete remaining work just by filling the potholes.

### Day 7 (18/02/2018)

IT was the last day of camp and about 25 % work was still left therefore only boys from the volunteers reach at the site early morning and started the remaining patch work and they repaired every pothole as there was a shortage of materials by this way the entire road was completed. Girls Team started cleaning the roads of village after cleaning all the roads inside the village girls then went to Shri Morya Mandeer to clean the surroundings of Mandeer. In these 7 days one team was constantly collecting information of the history of the village to create a Wikipedia page of the village. Then it was time for the Valedictory Function our Principal was present for this function along with dignitaries was present. After the ceremony ended, lunch was served to all the dignitaries in the village. After the lunch volunteers went to return the materials issued from villagers and then at 5.30 started return journey to the college.

We the NSS Program Officer, all Volunteers, faculty (Prof. M. D. Panchal and Prof. Smt. Prajakta Pimpalkar) and staff (Mr. P.K. Bhagat) associated with NSS camp are thankful to Dr. Prabhakar Desai Director, NSS Savitribai Phule Pune University for giving permission to organize special Camp at Wadgaon Kashimbeg. We extend our sincere thanks to our Principal, Dr. A.S. Pant for his encouragement and constant support. We are thankful to Smt. Kahndagale, Sarpanch of the village **Wadgaon Kashimbeg**, Mr. Sachin Teke and all members of Grampanchayat for their support. We are thankful to all members of faculty and staff who visited the camp to encourage our volunteers. We are also thankful to the people of the village who have helped for the NSS Camp.

Dr. U.S. Kakade

NSS program Officer





**लोकमत** पुणे, रविवार, दि. १७ सप्टेंबर २०१७

## मंचर-अवसरी रस्त्यावर खड्ड्यांचे साम्राज्य

मंचर : येथील मंचर ते शासकीय अभियांत्रिकी महाविद्यालय त्याचप्रमाणे शासकीय महाविद्यालय ते अवसरी (खुर्द) या रस्त्यांवर अनेक ठिकाणी खड्डे पडले आहेत. वारंवार होणाऱ्या पावसामुळे या खड्ड्यांची व्याप्ती वाढत आहे. अवसरी गाव आणि मंचर परिसरात महाविद्यालयातील अनेक विद्यार्थी

राहत असल्याने या रस्त्यांवर नेहमीच विद्यार्थी, रिक्शाचालक आणि ग्रामस्थांची वर्दळ असते. रस्त्यावरील या खड्ड्यांमुळे वाहनचालकांना आपला जीव मुठीत धरून प्रवास करावा लागत आहे. याच समस्येकडे महाविद्यालयातील राष्ट्रीय सेवा योजनेमार्फत लक्ष वेधून घेत या दुरुस्तीची मागणी करण्यात येत आहे.





# Departmental Reports



## Annual report for College e-Magazine 2017-18

### Department: Applied Sciences

Applied Science is a bridge between basic sciences and engineering technology. This department takes care of First year and Second Year Engineering subjects like Engineering Mathematics I, II and III, Engineering Physics, Engineering chemistry and Soft/Communication Skills.

The department has total 06 full time teaching faculty 1) Dr. U.S. Kakade, Associate Professor in Physics who is also working as Head of the Department and NSS program Officer. He is also selected as a member of College Development Committee as per Maharashtra University Act 2016 2) Smt. H.H. Rakshe, Assistant Professor in Mathematics and she is coordinator for First Year Engineering Students 3) Smt. P.V Damre, Assistant Professor Chemistry, 4) Shri V.P Jadhav, Assistant Professor Chemistry who has been appointed through MPSC, 5) Smt. Y. N. Chaudhari, Assistant professor in Physics and she also looks after Girl's hostel as a rector and 6) Shri M.D. Panchal, Assistant Professor in English who is also looking as Assistant Rector for Boys Hostel.

Department has 04 non teaching staff 1) Smt. A.S. Kaharat, Non Technical Laboratory Assistant 2) Smt. S. D. Neela, Non Technical Laboratory Assistant who has been transferred from Govt. Polytechnic Pune at the place of Shri. J. P. Kadam who has been transferred to GP Pune, 3) Smt. Y.B Kamble and 4) Shri B.J Bade.

In current academic year faculty of this department has participated in various courses, Smt .Y.N. Chaudhari participated in a 3 week refresher course in Physics, At SGB, Amaravati University, Amaravati and 1 week Faculty Development Program (FDP) organized by GCOEAR, Awasri Khurd. Smt. H.H. Rakshe, Smt. Y. N. Chaudhari and Shri V.P Jadhav have currently participated in a 2 week online FGP on Fundamentals of ICT in education organized by IIT Bombay.

In current academic year 2017-18 the department was arranged following programs for first Year students,

- 1) Welcome program for newly admitted first year students.
- 2) Health Check up of all FE, DSE and Hostellers.
- 3) Physical Education Scheme of Savitribai Phule Pune University.

4) Organized a spoken tutorial exam (LINUX, LATEX) for all first year students.

Apart from regular teaching learning activities Applied Science Department faculty and staff associated with activities like 1) ARC for Engineering, Pharmacy, MBA/MCA admissions, 2) First year and Direct second year admissions 3) Annual Social gathering Resonance-2018, 4) Annual sports activities- Combat-18 5) Internal as well as University Examinations etc.

Faculty from this department always encourages First year students to participate in various extracurricular activities like ROBOCON, GO KARTING, ABINITIO, BAHA, IAPT, NSS and cultural events.

Head, Applied Sciences

# AUTOMOBILE ENGINEERING DEPARTMENT

## ANNUAL REPORT (2017-18)

The department of Automobile Engineering was started in the academic year 2009-10. Since from Nine year we are striving for continuous development of our department and with that effort now department is having full equipped Laboratories with almost all Teaching resources, also higher qualified Teaching and non Teaching staff. The department is committed for overall development of students which will help them to achieve top position of their career.

### Infrastructure Status

- Total Laboratories = 08 + 01(CAD Lab),
- Total Classrooms = 03 + 01(Drawing Hall),
- Total Staff-rooms = 04+01 (HOD Cabin)
- Seminar Hall = 01,
- Girls Common Room = 01
- Boys Common Room = 01

### Staff Position

- FE Intake= 60,
- Total Intake = 240,
- Total Teaching Faculties=10  
(1 Prof. + 1 Asso. Prof. + 08 Asst. Prof.)
- Total Tech. Lab Assistants = 04
- Total Auto Technician = 03
- Total Supporting Staff (Class IV) = 03

### Achievements of Students

Students of our department are having good academic excellence. The students are able to hold ranks in University Examination. For Academic Year 2015-16 Patil Satyajit Vijay hold 3<sup>rd</sup> , Avhad Nilesh Arjun hold 4<sup>th</sup>, Desai Sachin Kashinath hold 5<sup>th</sup> and Shinde Yogesh Gorakh hold 10<sup>th</sup> University Rank. Also for Academic Year 2016-17 Toke Madhuri Arun hold 1<sup>st</sup>, Chaudhary Rakesh Shantaram hold 5<sup>th</sup> and Bawane Rakesh Shantaram hold 8<sup>th</sup> University Rank.

Every year students have successfully qualified the GATE Exam. For GATE-2015 , Dengale Vaibhav Ramesh, Wagh Vishal Vamanrao, sapike Yogesh Gorakshanath, Solapure Umesh Sharanappa, Thorat Sonali Subhash and Karishma Mahajan were successfully qualified GATE Exam with All India Rank 9531, 10879, 13345, 25433, 25929, 25929 respectively. Also for GATE-2016, Lalge Shivaji Kashinath and Ugale Chaitanya Lahu have qualified with All India Rank 31942 and 40198 and for GATE-2017 Tushar Dattatray Thoke and Sumit Rajaram Yelpale have qualified with All India Rank 29829 and 35543.

### Higher Education and Placement

Many students from previous batches were preferred to go for higher studies. Magar Sameer Ashok from the class of 2016 , Chakka Venkat Siva Kanna and Bhiram Suresh Kumar from the class of 2016 has secured admission for **M.S. (Mechanical Engineering) at Rochester Institute of Technology, New York**. Students were also placed in reputed companies Like Volkswagen India, Chakan , M/s.Guru Meher Automobile, Mumbai, Opulent Infotech Pvt Ltd , L-Cube , Shrinath Automotive Tata Authorized Workshop .

### Industrial Visit, Expert Lectures and Workshops

Entrepreneurship is a tool or mechanism that can be used to open the minds of individuals and organizations. Entrepreneurship includes creativity, innovation, risk taking and ability to plan and manage projects in order to achieve

objectives. Automobile Engineering Department had organized five days 'Entrepreneurship Awareness Programme' in association with MCED (Maharashtra center for Entrepreneurship Development). This Programme was organized to generate awareness about Entrepreneurship amongst students. This training programme by Mr. Raja Patil (P. O. Mced) .

To enhance practical knowledge of students we are regularly organizing Industrial Visit ,Expert Lectures and Workshops. For Academic Year 2017-18 details are listed below.

Date	Activity	Class	Name of Expert	Industry Name/Deputment
04/07/2017	Industrial Visit at Vighyan Ashram Pabal			Vighyan Ashram Pabal
10/07/2017	Industrial Visit at CIRT Pune	TE/BE		CIRT Pune.
29/07/2017	1)New Technologies in Automobile & Engine design			
	2)GT Power software for Engine Design	BE	Mr.Dipak S. Bhat	Cummins Technology India Ltd.Pune.
	3) Different project Works in Automobile.			
19/08/2017	Expert Lecture Road Safety Rules & Regulation( Cancelled due to transfer of Expert Mr.Chandrakant Kamble(PI)		Mr.Chandrakant Kamble(PI)	Police Inspector
31/08/2017 to 04/09/2017	"Access to Employability"	BE	Smt.Vishakha Parulekar	Sri Rural Development Programme, Bangaluru.
02/09/2017	1)Orientation of industrial Production Process	TE		(Bajaj Auto, Kirloskar Pneumatics & SKF India Ltd.)
	2)Bearing Design & Manufacturing		Mr.Gopal Sakala	
19/09/2018	Industrial Visit (Minda) chakan	TE		Minda Chakan.
16/09/2017	Industrial Visit(Sridha Motors,Chakan.)	BE		Sridha Motors,Chakan
25/09/2017	Industrial Visit (Bhimashankar Sahakari Sakhar Kharkhana)	SE		Bhimashankar Sahakari Sakhar Kharkhana, Pargaon,Tal-Ambegaon Dist-pune
04/10/2017	Industrial Visit(D.V.V.P Collegenbof Engineering, Ahmednagar)	SE		D.V.V.P Collegenbof Engineering, Ahmednagar
09/10/2017	Industrial Visit (Vignhar Tyres and Servicing Station,Narayangaon,pune)	BE		Vignhar Tyres and Servicing Station,Narayangaon,pune
10/10/2017	Industrial Visit(The Kothari Wheels Narayangaon,pune )	TE		The Kothari Wheels Narayangaon,pune
20/12/2017 to 26/12/2017	7 Workshop on and maintenance of Engine and Vehicle."	TE	Mr. Vajjanath Moreshwar Kulkarni	M/S.Kulkarni Automobiles ,aythorized Distributor of Hero Motors-Spares & Service,Raykar Mala,Sinhgad Road Pune.
17/03/2018	Expert Lecture on "Automobile Homologation and COP Certification with ARAI" Future vehicle regulations road map till 2023 with RDE PEMS testing. Skill Required for GET in Volkswagen.	SE,TE & BE.	Mr.Nachiket Deshpande.	Volkswagen Pune.
20/03/2018 & 21/03/18	Indusrtrial Visit (Bhimashankar Sahkari Sakhar karkhana.)	FE		(Bhimashankar Sahkari Sakhar karkhana.)
22/03/2018	Industrial Visit(The Kothari Wheels Narayangaon,pune )	SE Auto		The Kothari Wheels Narayangaon,pune

## Extra- curricular activities

Students of department are not only having the Academic Excellence but also participated in National level Technical events like BAJA, GO KART, Tractor Design and ROBOCON. They also performed well and got Prizes in Sport and Culture events.

For Academic Year 2017-18 students were secured rank 7<sup>th</sup> and qualified in virtual round of BAJA and got 5 Lakhs sponsorship from Bharat Forge.

T.E. Automobile students have participated in Auto India racing championship (Skidpad Event) and got 10000 prize winning amount, same students participated in Zeal Drag Racing organized by Zeal COE, Merge and here also got 10000 prize winning amount. Same student got first prize for “Engine 360” Event held under **Abintio show-2017** .

Students have also participated in Tractor Design event organized by SAEINDIA Southern section and Build up the Tractor with all given Technical Specification for which they got 50,000 Rs Sponsorship from Bhima Shankar Sakhari sakhar Karkhana. Now they will compete in final round scheduled for date 21, 22, 23 June 2018.

Automobile students are also included in the Team of Robocon. In 2018 under the leadership of Kaustubh Gunjal, a team of 37 members of different engineering streams developed two robots i.e. Manual robot (19 kg) and Automatic Robot (23.6 kg) which they named as Terence and Matilda respectively. The overall expenditure was distributed in two parts 1.5 lakhs for R&D and 3.5 lakhs for Robots development. The financial support by college summed up of 1.9 lakhs and rest was raised by the contribution of team members. In 2018 ROBOCON team defeated the well-known colleges like IIT Indore and NIT Hamirpur, and secured the AIR 2 in the League matches. In 2018, the team also bagged the ROBU award for “Smart and Simple Robot” which consisted of prize money worth Rs.50,000 along with the trophy which brought laurels to the college. Students also participated in “Avishkar-2017” and selected for Zonal Team of SPPU out of which one Team selected and participated for University level “Avishkar-2017” Competition organized by SPPU.

Students are also not lagging in Sport and Cultural activities. For Academic Year 2017-18 Kho-Kho Girls Team stands IInd Runner up in Inter Collegiate Sports of SPPU. Miss. Priyanka Ankush Selected in interzonal team of SPPU, also the Team was winner of ZEST-18 at COEP. Chess Girls Team was a winner in Intercollegiate Sports of SPPU and Miss. Shrushti Mutkule selected by Interzonal Team of SPPU. Chess Boys Team was II nd Runner up in Intercollegiate Sports of SPPU. Mr. Pramod Kambale was Runner Up in Intercollegiate and IInd Runner up in Interzonal Weight Lifting Sports of SPPU.

## PHOTO GALLERY



GO KART (2017-18)



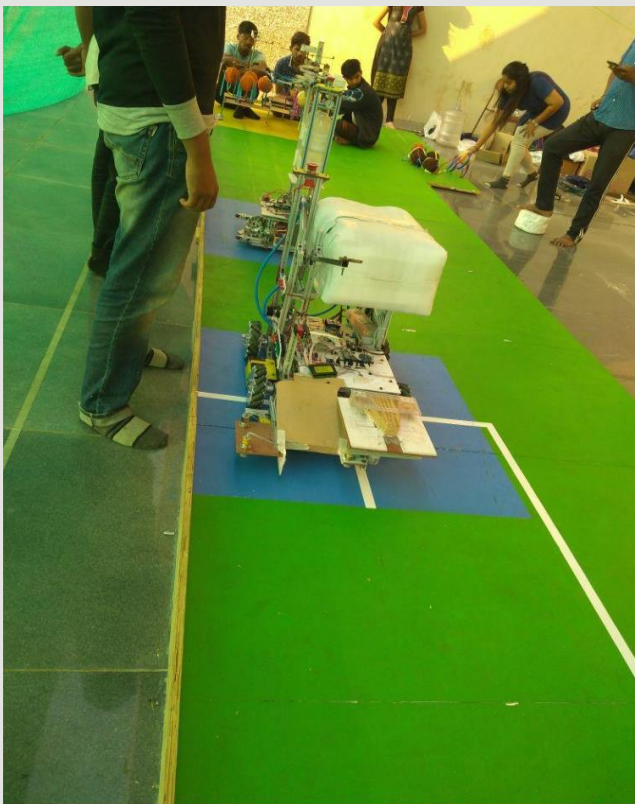
BAJA PROJECT (2017-18)



**Tractor Design (2017-18)**



**ROBOCON (2017-18)**



**ROBOCON (2017-18)**



**“Two Wheeler, Four Wheeler – Service & Maintenance”  
Expert Speaker- Mr. Vaijanath Kulkarni (2016-17)**



**T.E. Automobile Engineering Student got first prize for "Engine 360" Event held under Abintio**

**Industrial Visit(The Kothari Wheels Narayangaon,pune )**



**Enterprenurship Development Programme**

**Industrial Visit (Bhimashankar Sahakari Sakhar Kharkhana)**

**Mr. R. B. Teltumade**  
**Departmental Magazine Coordinator**

**HOD**  
**(Automobile Engineering Department)**

## Annual report of Civil Engineering Department

### **Dr. S.S.Valunjkar**

Dr. S. S. Valunjkar, Professor, Government College of Engineering, Karad has joined this department on deputation.

Dr. S.S.Valunjkar has worked as paper setter, examiner for Maharashtra Public service Commission in various engineering examinations.

Dr. S.S.Valunjkar has worked in scrutiny committee constituted by All India Council for Technical Education, Regional Office at Kanpur.

Dr. S.S.Valunjkar has successfully completed the MHT CET 2017 examination as District Liaison Officer.

Dr. S.S. Valunjkar worked in selection committee constituted by Shivaji University, Kolhapur for faculty recruitment.

One candidate has completed the Ph.D. programme in Civil Engineering under the guidance of Dr. S.S.Valunjkar.

### **Dr. W.N. Deulkar**

- He was invited to deliver the expert talk during one day FDP on “earthquake resistant structures” at JCOE Kuran .
- He was invited to deliver the expert talk on Structural audit during one day workshop at JCOE Kuran .
- He has worked as examiner for answer sheet assessment for theory examination by SPPU held between Nov/Dec 2017.
- He attended the STp on “Different methods of Structural Analysis”



- He worked co-coordinator for college “gathering and sport activities” held during -----
- He presented the research paper on “Effect of Manufactured Sand on Properties of Concrete: A Review” at international Conference(JCON-2018) organized by JCOE, Kuran Dist Pune .
- He worked member of state level committee for checking the of bogus colleges (03 nos) framed by the Regional Office, Pune on dates -----
- **Chaired the session of international conference (JCON-2018) at JCOE Kuran on .**
- He was invited by Government Polytechnic, Awasari (Khurd) as a chief guest to guide the civil engineering students during activity under Institute of Engineer, India Student Chapter on -----.
- He is recognized PhD supervisor in Civil Engineering under SPPU,
- Arranged the site visits of SE Civil students at Phoenix Mall Pune to study the aspects of planning and at Kamshet Tunnel to study of geological aspects on 22.03.2018
- Arranged the site visits of TE Civil students at water treatment plant , Nigadi Pune to study the aspect of STP and ETP .
- He is coordinating the civil related activity and repair work in the college campus with authorities of PWD
- Carried major Consultancy for Civil Related Work of 1.50 Lac as structural audit of building, third party audit for water distribution schemes for Zilha parishad Pune and Panchayat Samittee at Junnar, Ambegaon, Khed, Shirur, Maval
- Motivating the students to participate in co-curricular activities. As a result of this,
  - a group of final year students have done the project on “Innovative water treatment system using natural filters” and have secured
    - the ranked among the first best six project selected during the “Avishkar 2018”, an student competition organized by the SPPPU, on -----

- First Prize in Water Olympiad Competition at SPPU by Rotary Club & SPPU, Pune
- Second Prize in State Level Dipex2018 Competition at Sangli by Akhil Bharti Vidyarthi Parishad.
- 02 students from second year have presented the innovative idea in the form of poster study on “Smart material for Sustainable Development” at AKKAR Competition organized at IIT Bombay and secured 2<sup>nd</sup> prize on -----
- 03 students from second year have participated and presented the paper on study on “smart building material towards the sustainable development” at MIT, Pune on -----

#### **Dr. S.B.Kharmale**

Dr. S. B. Kharmale has coordinated the IIT Bombay Spoken Tutorial for SE TE and BE Civil students on various Free and Open Source Softwares (FOSS) like “Libre Office” and “Q-CAD” in first term of Academic Year 2017-18 and “GIMP” in second term of Academic Year 2017-18.

He has also worked as subject expert for Finalizing Technical Specifications, Technical Scrutiny for Applied Mechanics Equipments at State Level Purchase in 2017-18.

Dr. S. B. Kharmale has delivered an expert lecture on “Design of RCC Structures” for Final Year Civil Engineering Students of Government Polytechnic, Awasari (Khurd) under Institute of Engineer, India Student Chapter.

Dr. S. B. Kharmale is now Savitribai Phule Pune University recognized PhD supervisor and recently enrolled in College of Engineering Pune research center for Civil Engineering.

In this academic year, Dr. S. B. Kharmale has reviewed research articles in various international journals such as Engineering Structures, Journal of

Building Engineering., International Journal of Advances in Structural Engineering, Advances in Mechanical Engineering.

Shri. Arun Jadav, Laboratory Attendant has been transferred to Workshop Department and Smt. Dalvi, Laboratory Attendant has been transferred to Mechanical Engineering Department. Shri. Prashant Sonawane, Laboratory Attendant joined this department.

A number of academic activities were carried out in the department during year 2017-18. Details of some of them are as below -

Sr.No.	Activity	Date	Name/s of Expert faculty and Supporting Staff	No. of beneficiaries
1	Site Visit to Dimbe dam, Yedgaon Dam for B.E. (Civil) Students	16/03/2018	Dr. S.S.Valunjkar and Mr. S. S. Gurav, Ms. A. R. joshi	All B.E. (Civil) Students
2	Site Visit to Ready mix plant, Khed for S.E. (Civil) Students	22/03/2018	Dr. S.B. Kharmale and Mr. S. S. Gurav, Ms. A. R. joshi	All S.E. (Civil) Students
3	Site Visit to Waste water plant, Pune for T.E. (Civil) Students	22/03/2018	Dr. W.N. Deulkar and Mr. S. S. Gurav, Ms. A. R. joshi	All T.E. (Civil) Students

4	Site Visit to Pre-stress Concrete Work at Dehu Road Construction	18/09/2017	Dr. S.B. Kharmale and Mr. S. S. Bisen	All B.E. (Civil) Students
4	Site Visit to Sewage Treatment Plant at Kasarwadi	18/09/2017	Dr. W.N. Deulkar and Mr. S. S. Bisen	All B.E. (Civil) Students
5	Site Visit to RCC construction at Metro Rail Work at PCMC	22/03/2018	Dr. S.B. Kharmale and Mr. S. S. Bisen	All T.E. (Civil) Students
6	Testing and Consultancy services for Civil Related Work of about Rs. 3.50 Lakh	2017-2018	Dr. W.N. Deulkar; Dr. S. B. Kharmale; Mr. S. S. Bisen; Shri. H. M. Barwade and Shri. P. A. Sonawane	ZP, Pune Panchayat Samittee: Junnar, Ambegaon, Khed, Shirur, Maval PWD, Maharashtra

A group of Final Year student guided by Dr Deulkar W N (Nilesh Irle, Pranav Kolekar, Deepak Jadhav, Vishal Mitkari, Prasad Sanganwar, and Tejas Auti) have presented an innovative idea on "WASTEWATER TREATMENT BY USING NATURAL FILTERS" and presented in different competitions who secured the prizes as follow.

First Prize in Water Olympiad Competition at SPPU by Rotary Club & SPPU, Pune

Second Prize in State Level Dipex2018 Competition at Sangli by Akhil Bhartiya Vidyarathi Parishad.

Secured Rank as First 6 at Avishkar2018 by SPPU Pune

Similarly, a group of second year student (Onkar Patil and Dheeraj Patil) has presented an innovative idea on “Smart material for Sustainable Development” at AKKAR Competition organized at IIT Bombay and secured 2nd position in Poster Presentation Competition.

Apart from these students of Civil Engineering department actively participated in technical challenges such as “ABINITIO 2017”. They also participated in RESONANCE 2018 (Annual Social Gathering), COMBAT 2018 (Annual Sports Activity) and were members of Annual Cultural Festival - “Bhimashankar Karandak” winning team.

The department is continuously striving hard in giving maximum academic inputs to students by arranging expert lectures, workshops by industry personnel and planning industry visits. It is also constantly motivating students for participation in co curricular and extra curricular activities.

# Departmental Report of Computer Engineering Department

The Computer Engineering department was established in year 2009 with the aim of providing quality education and excelling in all the endeavors it undertook.

The Department has state-of-the-art infrastructure and computing equipment supported by high speed internet connection. Student organizations (COMPSA and Gati-Tech) are dynamic and organize a number of academic well as extracurricular activities .The Department has a pool of experienced, dedicated and committed faculty members who aim at delivering top class education to students. Highly skilled technical laboratory assistant help us to keep all laboratories updated with latest software. Department organizes industry visits and expert session on latest technologies to expose the students to the rapid change in computer engineering domain. Student of our department have won prizes in various national and international level paper presentation and project exhibition.

There are 04 Regular Teaching Faculty & 07 Regular Non-teaching staff working in computer department.

## Events & Achievements of Computer Department

- 1) Industry visit of TE computer students was arranged on 14 March 2018. Students visited **Indian institute of tropical meteorology, Pune**. Students got opportunity to see India's' fastest Supercomputer **Pratyush**.
- 2) Master Rohit Kumar Sing got 48 marks (AIR 4200) in GATE 2018 examination
- 3) **Code Squade** team from SE computer won **AICTE Award 1** in Smart India Hackathon 2018 at Mumbai zonal centre.
- 4) Expert lecture on Higher Studies in Foreign Universities by Ms. Gauri Bosake, M.S., San Jose State University San Jose, California
- 5) Expert lecture on Agile Project Management by Mr. Christopher Malekar, Global IT Application Leader, Honeywell, Bangalore
- 6) Expert lecture on Python - The Language of Future by Mr. Rupersh Verma, Trainer, Monkfox, Bangalore
- 7) In intercollegiate University Kho-Kho Computer Student Shivaji Kokare 1<sup>st</sup> Qualifier
- 8) In VIT Milange Event Master Shivaji Kokare got best attacker Award.
- 9) In COEP ZEST Event our team is Semifinalist
- 10) In COEP ZEST Event Girls team was 1<sup>st</sup> Winner prize and Priyanka Ankush selected for Inter Zonal & Best Defender

- 11) In Athletics Master Shivaji Kokare got 3<sup>rd</sup> place in COEP ZEST:  
1600m
- 12) AVHAN IIT Bombay – 800m 4<sup>th</sup> Place

# Department of Electronics and Telecommunication

The department of Electronics and Telecommunication was established in 2009-10. Since its commencement, the primary level of the department has been to impart value based quality education, training and research at the undergraduate level in various areas of Electronics and Telecommunication Engineering with broad emphasis on design aspects of electronic systems.

The Department has always been on a high growth path and has experienced and dedicated faculty with a strong commitment to engineering education. To keep pace with the current technological trends, all the undergraduate curricula have been upgraded by Savitribai Phule Pune University.

Laboratory facilities are utilized by students for the extensive project work. The department focuses on preparing its students to meet new industry challenges and making them aware of the recent advances in the technological field by emphasizing on

- A strong technical training in modern electronics technology
- Skills in analysing and design of microelectronic circuits and system
- Latest trends in simulation
- Advanced computer networking
- Practical skills in, Image processing, VLSI Design, Fiber Optic Communication and Advance Communication

## Strengths:

- Three faculty member with Ph.D. qualification.
- Experienced and Qualified Faculty Members.
- Meritorious Staff.
- Well Equipped Laboratories with Latest Equipment's,
- Excellent Academic Records.
- Enriched Tradition of Co-curricular and Extra-curricular activities.

### 1. e-yantra Lab –

GCOEARA inaugurated e-yantra lab through video conferencing with IIT-Bombay on 28<sup>th</sup> February 2018. Principal Dr. A. S. Pant in his inaugural speech expressed his views for the current demand of robotics. The e-yantra Lab is supported by IIT Bombay and Sponsored by MHRD under the National Mission on Education through ICT program, Government of India. Four teachers from GCOEARA completed a three-month training conducted by IIT Bombay in order to set up the Lab in the Institute, and they received a cash award of Rs. 4,000 for showing excellence in training.

The College purchased materials worth of Rs. two lakhs for this lab. As this lab is under the control of IIT Bombay, the students will be benefited with the guidance of IIT Professors. This lab has been started in Electronics and Telecommunication Department. IIT Bombay gifted three robots in **the FIREBIRD-5** category to the Institute. 50 students of the institute are working in this laboratory at present and more students will be accommodated in the future. Students should use this lab on a large scale to have new job opportunities in the future.



## 2. Parent Meet 2018 -

On the occasion of parents meet, on 13<sup>th</sup> January 2018, parents were invited in the department to interact with faculty member & to build a strong bond between parents & faculty.

## 3. Alumni Meet 2018 -

There was a huge response for the Alumni meet conducted on 13<sup>th</sup> January 2018, Alumni's are keen to interact with faculty members. Alumni shared their experiences with TE/BE students & faculty members.

## 4. Equipment Donation

Ex. Professor from College of Engineering, Pune, Prof. Dr. Madhuri Arunkumar Joshi and her sister Dr. Sushma Anand Kulkarni has donated laboratory equipment for 'Internet of Things' laboratory in E&Tc Dept, Government COE and Research in the name of their father, late Prof. M. V. Deshpande who was also Ex. Professor at COEP and Director of Technical Education, Maharashtra State. "This was donated on the occasion of birth centenary of late Prof. M. V. Deshpande"



## 5. Faculty Development Programme (FDP):

Two FDP's conducted.

A one-week FDP on "Advances in Robotics and AI" was organized by E&TC Department at GCOEARA during 12<sup>th</sup> February to 16<sup>th</sup> February 2018. Prof. A. B. Patki, (Prof.E&TC, COEP) inaugurated this Faculty Development Programme (FDP).

FDP Coordinator Dr.M.S. Nagmode outlined and explained the purpose of this FDP. The chief guest of inaugural function Prof.A. B. Patki, said, "The present era is of Artificial Intelligence and Robotics

Principal Dr. A. S. Pant said, "Teachers must get advanced technical knowledge in Artificial Intelligence and Robotics to help the student, as students are important component of society". Directorate of Technical Education, Mumbai sponsored this FDP. Faculty from the various government as well as government-aided engineering colleges were present for this programme. Dr .M.S.Nagmode worked as FDP coordinator and Dr. N.P. Futane and Shri G.R.Phulay worked as co-coordinator.



Another one-week FDP on “Recent Trends in Renewable Energy Technology for Sustainable Development” was organized by Mechanical and E&TC Department jointly at GCOEARA during 5<sup>th</sup> February to 9<sup>th</sup> February 2018.

#### 6. Student Achievements:

1. In May 2017 exam final year student Deepika Dabhade from E&TC secured 8<sup>th</sup> rank in SPPU.
2. In **Resonance 2K18** student of E&TC wins the branch theme.
3. Student participates in ROBOCON, ABINITIO in academic year 2017-18.
4. Two student of final year E&TC are place in TCS in academic year 2017-18.

#### 7. Staff Achievements:

Dr. K.V. Thakur awarded Ph.D. from Savitribai Phule Pune University in academic year 2017-18.

#### 8. Interaction with outside world-

Most of the faculty members in E&TC department are invited as resource person in different educational institute such as-

1.HOD of E&TC department Dr. M.S. Nagmode was invited for expert talk in Kolhapur Institute of Technology on topic “ Innovations and opportunities in Electronics and Telecommunications Engineering “

#### 10. Expert Lectures/Workshop –

1. Mr. Girish Khilari (Chair Industry Relation IEEE Pune section) was invited for the expert talk on Automation .
2. Soft skill lecture arranged by TCS for employability enhancement in E&TC Department.
3. Industrial Training and hands on session for the students of TE/BE E&TC students is organized on 7<sup>th</sup> Feb 2018, by Mr. S. Natesan. Mr. S. Natesan is from OPPILA Microsystems, Pvt. Ltd. Bangalore. The training is based on Field Programmable Analog arrays for different analog applications.

#### 11. Industrial Visit –

1. FDP Participant & e-yantra lab student visit - at Robocon lab, Pashan,Pune on 15/3/2018.

#### 12. Papers presented/published by faculties: 04

#### 13. Workshop attended by faculties : 06

All faculties, Technical Lab Assistant, Lab Attendant taking effort for departmental growth.

## Annual Departmental Report 2017-18

### Department of Instrumentation & control

The instrumentation department is established in the year 2010. It has grown to a larger extent in these years. Department is committed to impart good technical education in the field. The department has major well equipped laboratories, the Sensor and Transducer lab, Process Control lab, Analog and Digital Electronics lab, Embedded system lab & a Computer lab. The department has seven regular highly motivated and devoted faculty members along with four technical non-teaching staff and two supporting staff.

I had taken the responsibility of the Head of the Department post in August 2016 after completing deputation period of PhD course, later on PhD degree is awarded to me in April 2017.

The students of the department are highly talented and multifaceted, organize, and participate in many events.

They have shown their sportsmen talent by participating and winning various events in the Annual Sports program of college i.e Combat 17 and Zest matches at COEP.

Students participated enthusiastically in the annual cultural program Resonance 2017 and in Bhimashankar Karandak.

Technically also the students of the departments have shown their talent by an active participation in the college technical fiesta ABINITIO-2017, E-Yantra, ROBOCON, Poster presentation at IBS Management college, Mumbai.

On social front, department students have contributed to society through various activities of NSS such as Cashless banking session, Blood donation and NSS camp. Students have also participated in I2I BHAU Institute COEP in team 'SRUJAN' completion, Society of Woman Engineering Conference.

Not only participation but the students of the department showed their management skills by organizing the various events in the college with the inter branch students actively. They worked as Magazine committee members.

The department student body IACESA conducts various activities in the department for bridging the gap between academic world and world of work. Industrial visits were arranged for students to National Chemical Laboratory, Katraj Dairy Plant.

Government of India, All x AICTE AQIS Application x शासन निर्णय - महाराष्ट्र शास... x Mail - milindbongulwar x Exam Teacher Appointm... x Person 1

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AQIS Application All India Council for Technical Education  
अखिल भारतीय तकनीकी शिक्षा परिषद

AICTE-AQIS AICTE AQIS Application:

Pin Code 410503

Declaration  
This is an Institute level account. This has to be entered correctly in consultation with the Finance Officer and Head of Institute. Once entered it will become non-editable. The same account will be used for disbursement of grants by AICTE.  
For any wrong entry in the above data, the concerned Individual/Institute will be responsible.I have read the declaration and accept it by ticking this checkbox.

All AQIS Application Information 1 - 5 of 5 Please Click on "New" button below to apply for new 'AQIS' Application

AQIS Application	Status	AQIS Schemes	Faculty Id	Title	Surname	First Name	Father's Name	MobilePhone #	Email Address	Scale of Pay	Exact Designatio	Appointment Type
1-35978421	Submitted	UBA-Umat Bharat Abhiyan	1-450085971	Dr.	KAKADE	UTTAM	SAKHAHARI	9011286723	usakade@gmail.	Vith Pay Scale	ASST PROFESSOR	Regular
1-359043381	Submitted	STTP - Short Term Training Program	1-719921075	Dr.	BONGULWAR	MILIND	RAJABHAU	9370322479	milindbongulwa.	Vith Pay Scale	ASSOCIATE PROFESSOR	Regular
1-3567513104	Submitted	SPDP-Skill and Personality Development Programme Centre for SC/ST Students	1-3017843548	Dr.	WARKHEDKAR	RAVI	MAHADEVRAO	7767555777	raviwarwildorchi.	Vith Pay Scale	ASSOCIATE PROFESSOR	Regular
1-3560030699	Submitted	STTP - Short Term Training Program	1-3198270518	Dr.	GHUMBRE	SHASHIKANT	UTTRESHWAR	9423245703	shashi.ghumbre.	Vith Pay Scale	PROFESSOR	Regular
1-3532887917	New Request	HPS-Hostel for SC/ST Students	1-721625282	Dr.	KHARMALE	SWARNIL	BAPU	8316456141	khamale.swapn.	Vith Pay Scale	ASST PROFESSOR	Regular

AQIS Application

Details of Co-Ordinator AQIS APPLICATION DETAILS Previous 1 of 5 Next

16:23 04/04/2018

Some of the faculty members attended various short term training programmes for the exposure to modern technology which helps them to deliver updated knowledge during to the students.

The entire faculty, staff and the students are working together for the betterment of the department.

Dr. Milind. R. Bongulwar

Head of the Department

# Department of Mechanical Engineering

Dr. S.A. Kshirsagar, Dr. S.A. Sonawane and Dr. S.S. Deshpande have joined as Associate Professor of Mech. Engg. by nomination from MPSC. Shri. J. M. Arackal, Shri. A.S. Kousal and Shri. N.D. Padawale have joined as Assistant Professor of Mech. Engg. by nomination from MPSC. Shri. C.T. Kunjir, Associate Professor of Mech. Engg. has been transferred to Office of Joint Director, Technical Education, Pune as Assistant Director (Technical). Shri. C.P. Borse, Instructor (Technical Lab. Assistant) has been transferred to Computer Engg. Department and Smt. K.P. Bhagwat, Instructor (Technical Lab. Assistant) has joined in his place by transfer from Computer Engg. Department. Smt. K.V. Lade, Laboratory Attendant has been transferred to other institute.

Prof. S.V. Joshi worked as a member of 7<sup>th</sup> Pay Review Committee set up by All India Council for Technical Education, New Delhi. Dr. R.M. Warkhedkar has been recognised to work as Post Graduate Teacher & Ph.D. Research Guide by Savitribai Phule Pune University.

A number of academic activities were carried out in the department during year 2017-18. Details of some of them are as below -

Sr.No.	Activity	Date	Name/s of Expert faculty	No. of beneficiaries
1	Guidance about Industry Functioning, Group Discussion and Personal Interviews	29-07-2017	Shri.R.D. Bhelke	TE / BE – 123 students
2	Expert lecture on “Overview of Joining Processes”	30-07-2017	Shri. Milind Yewale	SE / TE – 71 students
3	Expert lecture on “Automobile Homologation and COP Mandatory Regulations in India”	05-08-2017	Shri. N.P. Deshpande	TE / BE – 89 students
4	Expert lecture on “How to prepare Power Point Presentations?”	21-08-2017	Prof. S.R. Kerkal	TE / BE – 93 students
5	Workshop on “Group Discussions and Personal Interviews”	20-01-2018	Shri.R.D. Bhelke	TE / BE – 45 students
6	Industrial visit to Atlas Copco Product Company, Chakan	22-01-2018		TE / BE – 20 girls
7	Expert lecture on “Innovation for Technical and Business Management using TRIZ technique”	29-01-2018	Shri. Santosh Khadsare	TE – 70 students
8	Faculty Development	05-02-2018 to	Dr. P.V. Bhale,	19 staff members

	Programme on “Recent Trends in Renewable Energy Technology for Sustainable Development”	09-02-2018	Dr. G. N. Kulkarni, Dr. V.S. Bandal, Dr.R.D. Vashistha, Dr. Arvind Chel, Dr. Smt. Geetanjali Kaushik, Dr. Vinay Hasabnis, Shri. Ravindra Birje, Dr. Sandip Kale, Prof. M.R. Birajdar, Prof. Pritam Gujarathi, Dr.S.V. Karmare	of Govt. Engg. Colleges and Govt. Polytechnics in State
9	Workshop on “Fundamental Problem Identification and Problem Solving Tools – TRIZ”	31-03-2018	Shri. Santosh Khadsare	TE – 35 students

Several students of Mech. Engg. department actively participated in technical challenges such as “Development of Onion Harvester” by TIFAN (Technology Innovation for Agricultural Nurturing), “Development of Solar Vehicle” by NSVC (National Solar Vehicle Challenge) and ROBOCON. They also participated in RESONANCE 2018 (Annual Social Gathering), COMBAT 2018 (Annual Sports Activity) and were members of Annual Cultural Festival – “Bhimashankar Karandak” winning team. Some of them were also members of teams such as Team Phalanx (secured 1<sup>st</sup> rank in Skid Pad test held at AIRC, Pune) and ZEAL DRAG 2.0 (Endurance 2<sup>nd</sup> runner up)

The department is continuously striving hard in giving maximum academic inputs to students by arranging expert lectures, workshops by industry personnel and planning industry visits. It is also constantly motivating students for participation in co curricular and extra curricular activities.

Dr. S. A. Sonawane, Associate Professor, Mechanical Engineering successfully completed two 2-weeks MOOC FDPs on “Foundation Program in ICT for Education (FDP101x)” and “Pedagogy for Online and Blended Teaching-Learning Process (FDP201x)” conducted by IIT Bombay. He has scored 99 % and he is amongst the top 241 performers from a total of 5308 participants in the programme. These FDPs were held under the aegis of Pandit Madan Mohan Malaviya National Mission for Teachers and Teaching, MHRD, Government of India.

## **WORKSHOP DEPARTMENT**

The Workshop is the department where the learning of the students during engineering education takes physical shape. Workshop department is started in the college independently from semester 2010-11 and today it is the backbone of all maintenance related & project related activities of the institute. The department is now focusing on practical excellence and technical skill development of the students through integrated efforts. This department is well equipped and satisfied the students need related to their projects. This year our workshop team guided and helped the student in building major projects like GO KARTING, NSVC, TIFAN, ROBOCON, BAJA and students individual projects. The Workshop is providing a solid foundation for the entire research project and maintenance related activities of our college.

Mr. Gajanan S. Datar, Workshop Superintendent is heading this department and has a master's degree in Mechanical Design. This department has seven sub sections from which Welding shop under Mr. G. S. Deokate (Instructor Welder), Machine shop is under Mr. M. J. Sarjerao, (Instructor Machinist), Fitting shop is under Mr. A. G. Patrakar (Instructor Fattier), Carpentry shop is under Mr. Vijay K. Kale (Instructor Carpenter), Molding shop under Mr. Shaker Ahemad Mohammad Hanif (Instructor Molder), Black smithy/Tin smithy under Mr. E. D. Ovhal (Instructor Black Smith) and Turning shop. Mr. V. U. Madhe is working as a Foreman.

During this academic year Mr. Gajanan S Datar has completed the AICTE sponsored faculty development program on “Instructional Methodologies for Outcome Based Education in Mechanical Engineering” and participated “FDP101x Foundation Program in ICT for Education” from IIT Bombay.

**Gajanan S. Datar**

Workshop Superintendent

# Photography





# Independence Day

Government Engineering College and Research hosted the Independence Day celebrations by hoisting the tricolour to celebrate the enthusiasm. During this time, the Honourable Principal Dr. A. S. Pant guided the students by saying, "On this 70<sup>th</sup> Independence Day, let's bring the idea of a New India into reality. Students should not keep their ideas in their minds, but let them out so that the institute can help cultivate it. It is the duty of every citizen to remember the sacrifices made by our freedom fighters and also that it is our duty to oversee the duty of national service and protection." During this Independence Day various competitions were held. In the essay competition and elocution, the topic was "Enrolling in the voters list and strengthening democracy". Gajanan Holkar of the B.E.(Mechanical) won the essay competition. Elocution competition was won by Nilam Shelke T.E.(Instrumentation). At this time, the Cultural Committee of the college performed a street-play on the topic of "Humanity and Women Security". This street-play showed that all the women around us must not depend on the ones around them and take the responsibility of their own security in their own hands. The National Social Service cell of the college had conducted cleanliness fortnight between 1<sup>st</sup> August and 15<sup>th</sup> August during which they also tried to eliminate plastic waste. This campaign was backed by all the staff, employees and students who participated enthusiastically. The flag hoisting program was conducted under the guidance of the National Social Service(NSS) cell head Dr. U. S. Kakade and gymkhana in-charge Dr. N. P. Futane. The anchoring of the program was looked after by Mahesh Sonawane(T.E. Mechanical) and Swapnil Lonkar(T.E. Civil).

# Independence Day



# ABINITIO 2k18

In the Government College of Engineering and Research, on 15/9/2017, the college principal Dr. A.S. Pant inaugurated the two-day state-level technical program of ABINITIO 2k17 - 18. On this occasion, Dr. AS Pant said, "It is a matter of pride that today we are inaugurating ABINITIO 2k17 - 18 on the date of Engineer Day. All young engineers should work in full capacity, devoted to the country and students will be able to work with their regular educational work. Work should be done, and they should feel alive and enjoy everything." The technical Competition was completed between 15 and 16/9/2017. There were a total of 30 technical competitions. A total of 1079 participants from various engineering colleges of Maharashtra have participated in the program. For the first time this year the competition of RC nitro car racing was organised in the institute. IIT, CoEP Pune were the only few colleges where this competition was organised before. All the heads of the college, officers, staff were present in this event. All the awardees were congratulated by Dr. A.S. Pant. For this technical program, Dr. RM Warkhedkar coordinator and Dr. N. P. Futane worked as co-coordinator, Rishikesh Kamble and Vrushali Sonawane worked for the planning of the program. The prize distribution program was anchored by Hiteshi Rathod (TE Computer) and Swapnil Lonkar (TE Civil). Shri. Rajesh Agarwal, Senior Manager, Siemens Information System, Pune was invited as the chief guest for the event.

# ABINITIO 2k17







## **Yoga day was celebrated in Government College of Engineering and Research with lot verve**

On 21<sup>st</sup> of June 2017 international yoga day was celebrated in Government College of Engineering and Research Avasari. It was celebrated for 4<sup>th</sup> time in college along with participation of students, teaching and non-teaching staff. Sir Ravindra Prabhakar Sandbhor M.A(Yogashastra and Natropathy)from Kavi Kulguru Kalidas University, Founder of “Manshakti Yog and Meditation Centre”, Rajgurunagar, Pune. was present as a guide and chief guest. Dr. A. S. Pant was the chairperson of the program and he explains the importance of yoga in daily life activities. He also mention Yoga day as priceless gift to world from Indian tradition. Principal Dr. A. S. Pant felicitate chief guest by giving book. At first Mr. Ravindra Prabhakar Sandbhor acknowledged the audience with “Importance of Yoga”. Then he explains the lessons of Yoga and further made audience to perform some basic yoga exercises. The college staff, Head of departments, and students present in large number for the program. Senior citizen Mr. Sayaji Shinde was present for the program and he has enjoyed practicing yoga on the day. Accordingly Prizes were distributed among the staff and student for performing the Yoga in excellent manner. From students side prizes given to Lalit Chaudhari and Hina Mulani. And from staff side to Mr. A. S. Mane and Mrs. Y. N. Chaudhari (Assistant Professor) The program was Organized by Dr. N. P. Futane (Gymkhana In charge),Shri. S. D. Patil (Assistant Professor) ,Shri S. B. Thorat and Miss S. B. Morde(Laboratory assistant assistant). At last vote of thanks was given by Mr. S. D. Patil.

# Tree Plantation Program

The Government of Maharashtra decided to celebrate the Vanmahotsav or Tree Plantation Day on 01 July 2017. The Government had stated determination to get 4 million trees, the incident was held at the Government College of Engineering and Research, Avasari(Kh). The event was inaugurated by the Honorable College Principal Dr. A. S. and started the program by the planting a tree. The college campus is the fantasy of nature, and also the cultivation of this tree is going to help turn the college premises into a paradise. The organization, officers, employees and students said that the challenge should be adopted in order to preserve the trees. The event saw an overwhelming response to the plantation by officers and employees of the organization as well as students. Hundreds of trees were planted during the ceremony. The tamarind, Gulmohar, custard apple, etc are some of the trees that were planted during the ceremony. The program was jointly organized by the college gymkhana, Green Club, and National Service Scheme (NSS). The vote of thanks at the end of the ceremony was delivered by NSS student co-ordinator Swapnil Lonkar.



# Yoga Day



# Tree Plantation



# Freshers' Welcome Ceremony

The students admitted to the Government College of Engineering and Research, Avasari(Kh) were welcomed by the institute on 1/8/2017. The event started with the light lighting ceremony and Sarasvati Puja by the Honorable Principal of the institute Dr. A. S. Pant. During the event he said that the students should become a good human being, gain the skills to solve the higher order technical and real world problems. They were also made aware of the need of the hour and what facilities and guidance the college provides to its students. The Heads of Departments introduced the students to their branches and what importance these branches have in engineering and in our day-to-day lives. Students were encouraged to take part in the collegiate and inter-collegiate competitions so that they can show their skills and parallelly improving them. Mr. T. T. Waghmare and Mrs. Y. N. Choudhary, the rectors of the boys and girls hostel respectively explained the rules and regulations that need to be followed by the students and also the facilities that the students will acquire in the hostels. It was assured to the students that in case of any discrepancies, their problems will be heard and solved with the appropriate steps as soon as possible. Dr. M. J. Pabale, the in-charge of the examination department explained to the students how they can study more in lesser time. Gymkhana in-charge Dr. N. P. Futane explained to the students about the various anti-ragging guidelines, precautions that the students should take, the details of the anti-ragging cell of the college. It was assured that the institute is ragging free and will remain the same. A total of 400 students and parents were present for the ceremony. The event was organised by the Head of the Applied Science Department, Dr. U. S. Kakade and the first year coordinator, Mrs. H. H. Rakshe. Mrs. A. S. Kharat, helped in the preparations and the program was anchored by Hiteshee Rathod and Siddhika Kapure.

# Women's Self Defence Campaign (Nirbhaya)

Internal Women's Grievances Committee of the College organized a one-day "Self-defence Training" for women employees and students of Government College of Engineering and Research Avasari (Kh) on 18/01/2018.

Mr. Santosh Dewade (Police Naik), Mrs. Trupti Gaikwad (Police Constable), Mrs. Sarika Bankar (Police Constable) and Mr. Vijay Fargade (Karate Coach) were present for guidance and training of self-defence.

The lady police constables, Mrs. Trupti Gaikwad, and Mrs. Sarika Bankar cited the actual incidences and explained how "Nirbhaya Cell" works.

Mrs. Dr. K. V. Thakur, in charge, Internal women's' grievances committee gave an introductory speech and Committee member Mrs. P. R. Deshmukh helped to organize this programme.

# Freshers' Welcome Ceremony



# Women's Self Defence Campaign (Nirbhaya)



# Marathon



# Combat

Government Engineering College and Research Avasari(Kh) inaugurated its sports week, COMBAT 2K18 by the hands of the chief-guest Hon. Ravindra Sabnis, the Tehsildar of Ambegaon Taluka. On this occasion, Hon. Ravindra Sabnis said, "Due to sports we can overcome violent situations in a non-violent way. In the current situations, if we want to avoid wars, then we must organise a large number of sporting events to cool the rivalry between nations in a peaceful way. This is the reason why Olympics are organised at an international level. To achieve success, we must always put in hard work and give 100% of our contribution".

The Honourable Principal of the college said, "Sports help us achieve discipline and good health". All kinds of games were organised during the week. The organisation of COMBAT 2K18 was done by gymkhana in-charge Dr. N. P. Futane, Mr. S.D. Patil, Sports Secretary of the college Pramod Kamble(T.E. Civil).

# Combat









# Resonance

The cultural gathering of Government College of Engineering and Research Resonance 2K18 ended with a lot of enthusiasm. The event was inaugurated by the Honourable Principal of the institute Dr. A. S. Pant. All different types of cultural events were completed with enthusiasm. YouTube Stand-up-Comedian Karan Sonawane was the chief-guest of the event. While speaking about the event, Dr. A. S. Pant said, “Spoken word and opportunity never get back and so we must work hard in all fields”. While speaking about the same, he used the example of Usain Bolt. All the winners of the different competitions which were held under Resonance 2K18 were distributed during the end of the event. Also, Dr. N. P. Futane mentioned all the different competitions in which the students had achieved victory during the academic year 2017-18. Dr. U. S. Kakade, the in-charge of the NSS cell mentioned about all the different activities that were undertaken by the NSS cell. Arpan Thakare(B.E. Automobile) was the Cultural Secretary of the college for the academic year. Snehal Dube(B.E. Computer) undertook the task of the being the anchor for the prize distribution ceremony. Dr. Bongulwar and Dr. Deoulkar looked over as the staff co-ordinators.



# RESONANCE



# Traditional Day



# Filmy Day



# Funky Day



# E-Yantra Inauguration



# Faculty Development Program



# Parents Meet

Dr. A. S. Pant inaugurated the first Parents meet at the institute on 13/01/2018. Dr. S. S. Nagmode welcomed all the parents who lent their valuable time for the cause. He also took the honours to talk about the program and proposed the program outline.

Dr. A. S. Pant said, “The contribution of the parents will be beneficial for the college. Also the parents and teachers will be in link with each other”. There were a total of 81 parents present for the program during which they showed their gratitude.

Later on, all the parents joined the respective Head of Departments of their pupils so that they can exchange their thoughts. The HODs understood the expectations of the parents and the parents got a deeper in-sight of what their pupils are engaged in as their day-to-day environment. The feedback provided by the parents proved to be of immense help to the institute so that it can strengthen its backbone and overcome its weaknesses.



# Parents Meet



# 1<sup>st</sup> Alumni Meet by SAAGA

Alumni meet was organized on 13/01/2018 at Government College of Engineering and Research Avsari (Kh). Dr.A.S.Pant inaugurated Alumni meet with Saraswati Pujan and Deep Prajavaln. At the outset Dr. Shyam Sonawane, Coordinator Alumni meet, outlined the program. A total of 210 students of various branches were present for the meet. At the time of inauguration Dr. A. S. Pant said &quot;Our college alumni have achieved big positions in different fields. If every alumnus will help and cooperate with present students they will get employment opportunities in nearby future. Such meets will definitely increase industry-college interactions.” ‘

Heads of all Departments presented a current scenario of their departments. Alumni also provided guidance on available job opportunities for the students in nearby future.

Alumni meet end up jubilantly with cultural program and feast in the evening. Alumni cherished their college memories in the cultural program.

Dr. A. S. Pant established First alumni association by voice voting. Dr. Shyam

Sonawane declared the executive body of alumni association as below:

Sr. No.	Post	Name
1	President	Mr. Manoj Bhojane
2	Vice President	Mr. Rahul Chavan
3	Secretary	Dr. Shyam Sonawane
4	Treasurer	Tejas Narwade
5	Members	Jagdish Bias, Priyanka Shinde, Dheeraj Chopade, Prakash Sable, Amol Sathe, Kalpesh Jagtap, Rishikesh Kshirsagar

# 1<sup>st</sup> Alumni Meet by SAAGA



# Republic Day



# Convocation

Students graduated in the academic year, 2016-17 conferred with degrees in a Graduation ceremony held in the Government College of Engineering and Research, Avasari(Kh) on 23/02/2018. Dr. B.B. Ahuja, Director, Government College Engineering Pune was the chief guest.

The ceremony began with the procession led by Dr. M.J. Pable, College Examination Officer. On this occasion, Principal Dr. A.S. Pant proposed a report and cited the progress of college in various fields. Dr. B.B. Ahuja, with his valuable guidance, won the hearts of fresh graduates. Dr. B.B. Ahuja said, “Students should accept the worldwide challenges and update themselves with changing technology time to time”. He added, “Technology has a solution to all problems but problems are never same. Incoming 15-20 years, battery-powered vehicles will be used all over the world and the mechanical & automobile engineers will be facing big challenges. Therefore engineers should update and possess skills in all fields for upcoming job opportunities. Moreover, their focus must be on becoming entrepreneurs and job providers instead of just being job seekers. Coming era is of Robotics and Artificial Intelligence. Every day you should work with different ideas and accept global challenges for solving them”.

A total of 250 fresh graduates from all branches were present for this ceremony. All teaching, non-teaching staff members, and students along with all heads of departments Prof. S.V. Joshi, Dr. D. R. Pangavhane, Dr. S.U. Ghumbre, Dr. W.M. Deulkar, Dr. M.R. Bongulwar and Dr. M S Nagmode were present for the ceremony.

# Convocation



# Women Empowerment

GCOEARA organized a one day workshop on “Women Empowerment through Digital Environment for Sustainable Socio-economic Development” sponsored by Maharashtra State Women’s Commission. Shri. Diliprao Valse-Patil (former Assembly Speaker, former Minister of Higher and Technical Education) and Smt. Sunandatai Rajendra Pawar, (President, Mahila Bachat Group Pune) inaugurated this workshop. Speaking on this occasion, Namdar Shri. Diliprao Valse-Patil highlighted the importance of women in society and said “Half of our country’s population is our counterpart and only if they are empowered our county could possibly become a world superpower. Women are not periphery as they are working excellently on each & every job positions in all fields. The need of time is to change the mentality of society and empower women through large organizations, credit societies, and such workshops so that the country’s development can accelerate.”

Honorable chief guest Smt. Sunandatai Rajendra Pawar, on this occasion, cherished her childhood memories by telling how women were economically independent and how Mahila Bachat Groups are important for women’s economic independence, progress & confidence in the modern era. She also stressed the importance of the supply of healthy food for women and awareness of using sanitary napkins in a rural area. She also added women’s involvement in small businesses and pointed out opportunities in entrepreneurship. Principal Dr. A. S. Pant, while expressing his views said “Social programs are also organized in addition to technical programs in the college through NSS” Smt. Dr. Vidya Bal, a well known social activist, writer, and editor stressed men –women equality and addressed women to possess a rational, scientific approach rather than being superstitiously submissive. She further raised a need for interpersonal counselling for family and social problems”. Medha Dubhashi, interpreter, Professor at co-operative management institute, Shri Vilas Shinde – Director, Sahyadri Farm, Nashik, Dr. Vrushali Jadhav and Dr. Mankar – Sub-divisional Hospital, Manchar, Advocate Sandhya Bankikhale, Dr. S. U. Ghumbre, Head, Computer Engineering Department were expert speakers & conducted sessions on different topics such as digital technology, agriculture, self- help groups, Women Health issues, women’s rights and laws etc. 60 women of various Mahila bachat groups, credit societies from different parts of Khed, Ambegaon, and Junnar taluka were participants. Ladies staff along with girl students of the college were present & contributed to the success of this workshop. Smt. Nivedita Wagh worked as coordinator and Smt. Deepmala Trimukhe & Smt. Prajakta Pimpalkar worked as co-coordinators.

# Women Empowerment







# **Academic Photo-Session**



**Automobile Dept.**



**Civil Dept.**



**Computer Dept.**



**E&TC Dept.**



**Instrumentation & Control Dept.**



**Mechanical Dept.**



**OFFICE STAFF**



**LIBRARY STAFF**



**WORKSHOP STAFF**



**APPLIED SCIENCE DEPT.**

# ABINITIO Management Committee



# Resonance Management Committee



# Combat Management Committee



# Magazine Committee



# Gymkhana Committee



# NSS Team





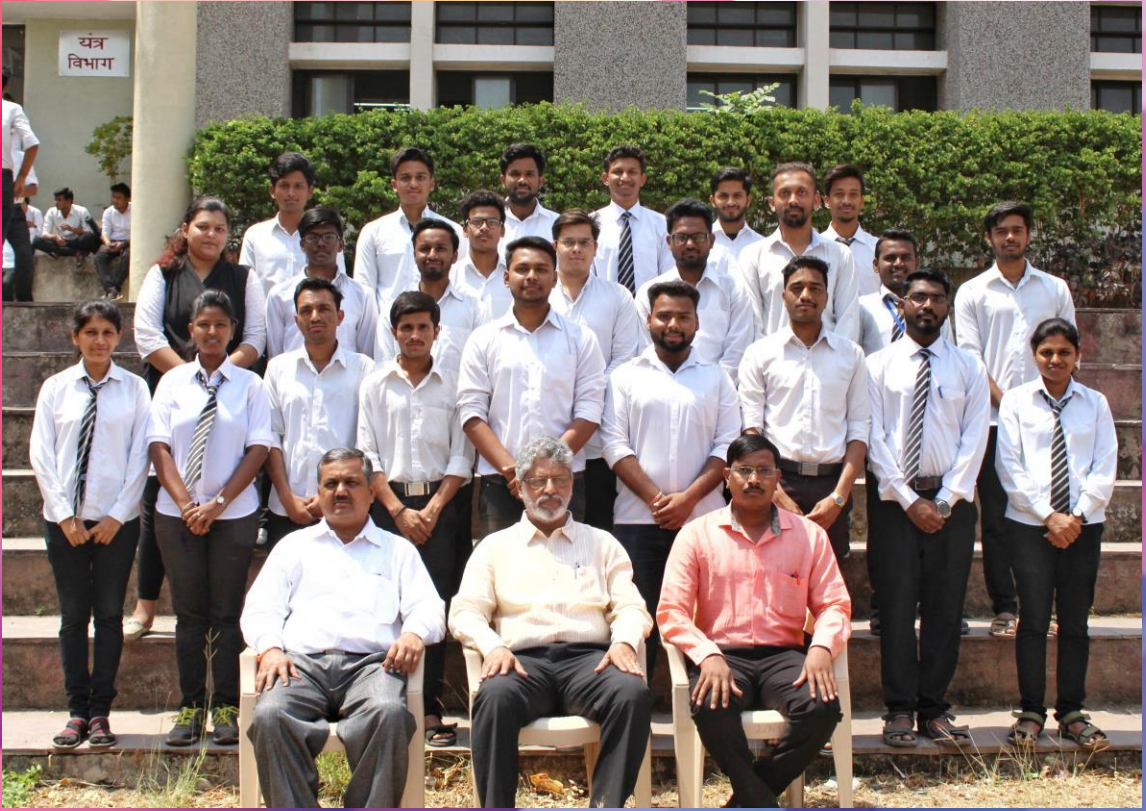
# E-Yantra



# Robocon Team



# BAJA Team



# Go-Kart Team



# Tractor Design Team



# NSVC Team



# TIFAN Team



# Hackathon Team (AIR 1<sup>st</sup>)





# **Inter-College Winners**

# Kho-Kho Team



# Chess Team



# Weight-Lifting



## Bhimashankar Karandak



# About Us:-

**Shri. Kishorekumar Kowdiki**  
**Faculty Magazine In-charge**

**Smt. Nivedita Wagh**  
**Asst. to Faculty Magazine In-charge**

**Madhumati Suman (TE E&TC)**  
**Student Magazine In-charge**

## **English Section:-**

**Sanjana Jadhav (SE Comp)**  
**Aditya Awasthi (SE I&C)**

## **Hindi Section:-**

**Rutuja Bhujbal (TE E&TC)**  
**Priti Shrivastav (FE Auto)**

## **Marathi Section:-**

**Deepak Randive (TE E&TC)**  
**Chinmay Patwari (SE E&TC)**

## **Technical Section:-**

**Swapnil Thokade (TE I&C)**  
**Vishal Holkar (SE Auto)**

## **Art Section:-**

**Divya Waghmare (SE Civil)**  
**Samidha Adhewar (SE Civil)**

## **Photography Section:-**

**Kunal Patil (TE E&TC)**

## **Technical Team: -**

**Prathamesh Pathak (SE Comp)**  
**Kunal Patil (TE E&TC)**