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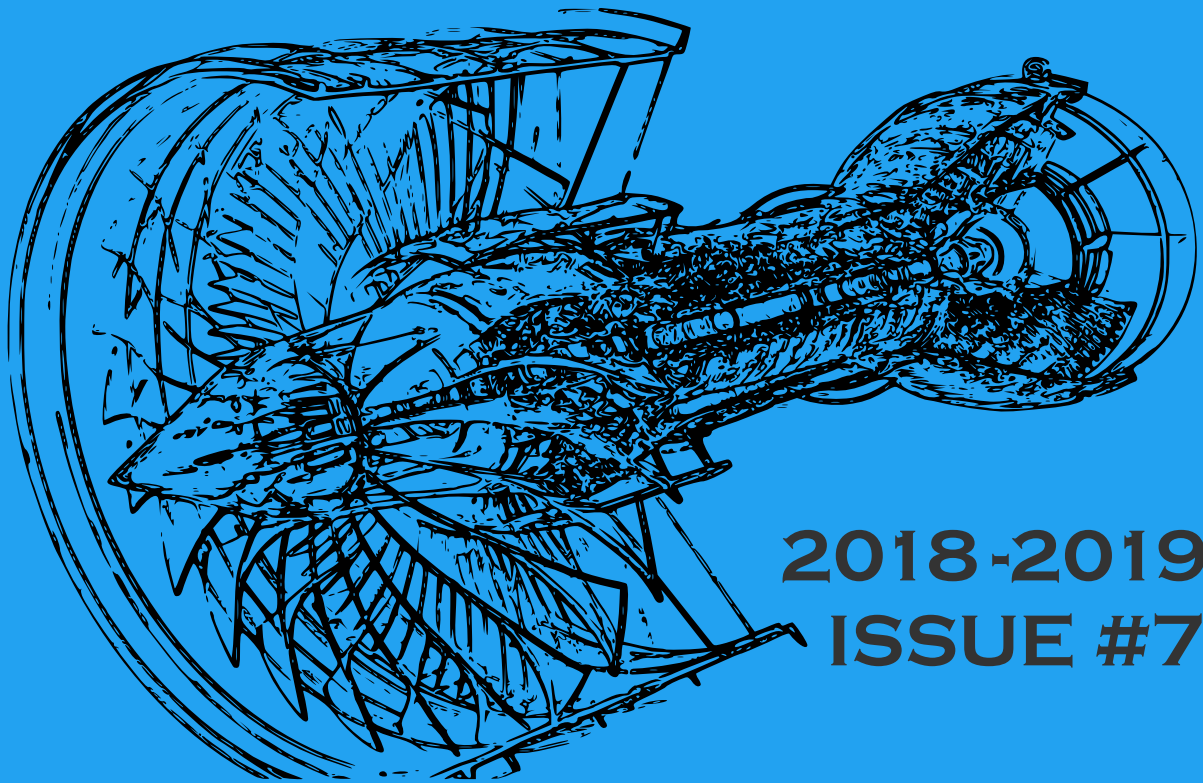


Maharshi Karve Stree Shikshan Samstha's

Cummins College of Engineering For Women
Mechanical Engineering Department



MECHANICAL EXPRESS



2018-2019
ISSUE #7

BEST DEPARTMENT AWARD

#HAT-TRICK

MAGAZINE TEAM



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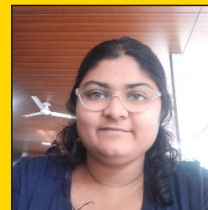
Sridevi
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Rutuja
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TOPPERS

ACADEMIC YEAR 2017-18



BE

DEEPTI GNANSEELAN



TE

APURVA DHOKEY



S.Y.B.TECH

PRAJAKTA GOSAVI

THE SPORTS LEAGUE



PENTACLE



ZEST
CHAMPIONSHIP



ELEVATE

SOME OF THE TROPHIES
BROUGHT
IN BY THE
TEAM EFFORTS OF



ANUSHKA MOOKHERJEE

BASKETBALL | HANDBALL
BE



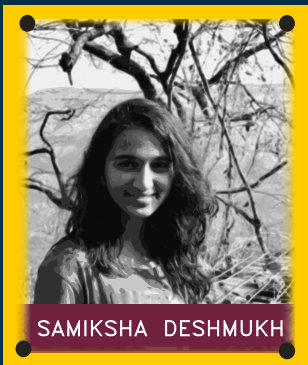
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SAMIKSHA DESHMUKH

ATHLETICS
S.Y.B.TECH



PAPIYA BHATTACHARYA

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T.Y.B.TECH



KAJAL DATIR

ATHLETICS
S.Y.B.TECH



PRATI KSHA SHIVARKAR

HANDBALL
T.Y.B.TECH



SIDDHI BAGDE

FOOTBALL
T.Y.B.TECH



RADHIKA ZANWAR

FOOTBALL
S.Y.B.TECH

TEAM ZENITH BAJA 5.0

RANKS AT BAJA TENNESSEE

ENDURANCE : 20th

SALES PRESENTATION : 6th

COST EVALUATION : 14th

DESIGN EVALUATION : 28th

ACCELERATION : 11th

MANEUVERABILITY: 13th

SLED PULL : 71th



Cost Award
at m-Baja 2019
Pithampur, India.



REPRESENTED INDIA AT

BAJA
TENNESSEE
2019



TEAMS THAT MAKE US PROUD!



SAE Aerodesign Team Bharadwaj



ABU Robocon Team Aaveg

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FROM HOD'S DESK

Greetings to all!!

The academic year 2018-19 has been full of new additions, exciting events, incredible achievements and collaborations. We started by welcoming Second Year students, who are the second batch of the autonomous B.Tech. course in the Mechanical Department. They were briefed about the various facets of Mechanical Engineering course by the faculty. The session was a success as many queries were raised by the students and eventually we could satisfy them all.

The first batch of M. Tech. students have secured internships ranging for durations of 6 months to 1 year in various good companies such as Cummins India, ANSYS Inc., Honeywell, Ericsson, TATA Motors etc. Some students are also working for prestigious government organizations like DRDO, ARAI, etc.

The compulsory internship program for the current Third Year students under the curriculum has also been met with success and companies such as Cummins India, Mercedes Benz R&D India, Boeing, EATON, Siemens, etc., have offered 2-3 months paid internships to the students.

The placements for both the UG and PG programs have been outstanding with nearly 90% students getting job offers in companies across the country. Mercedes Benz R&D India, Cummins India, General Electrics, PwC (PricewaterhouseCoopers) Hero Motors, EATON, TATA Motors, Nestle, JCB etc have recruited students

and have offered excellent salary packages.

The BAJA team of the College, Team Zenith, attended the Virtuals Event of the annual BAJA SAE India Competition, and they passed the test with flying colours. The final Endurance Race was held at Pithampur in January 2019. Our ATV put up a good show and this was a commendable effort taken by one of only 2 All Girls Teams in the country. In the same competition, Team Zenith stood first in the Cost Reduction event and secured 37th position overall.

The second semester was very eventful. It started with the Annual College Technical Festival, "Innovation". The department organized an event, CYCLOTHON for the second year in a row. We had an additional event called Faster Fixer. Both these events were innovative concepts thought of by a student from the department. We not only received an overwhelming response from participants across the city, but this event also captured the attention of our own college students as well as our faculty.

During the Annual Cultural Festival "Gandhaar", TY MECH was awarded with the "Best Class Award" and the Mechanical Department received the "Best Department Award", for the third consecutive year. It was a combined effort of all the students, the faculty, technical and the non-teaching staff who made this possible.

Team Zenith took the college to all new heights when a team from our college, an ALL GIRLS TEAM, represented INDIA at BAJA Tennessee Tech, United States of

America. The performance put up was extremely commendable and the team emerged glorious having secured impressive ranks in all departments of the event such as endurance, design, acceleration and so on. The team secured 22nd position overall, all over the world. They have made us all exceedingly proud.

ASME (American Society of Mechanical Engineers) Cummins Student Chapter also had quite an eventful year. Members got the opportunity to visit industries and attend lectures delivered by senior professionals from the industry. Some members even attended the E-Fest at VIT, Vellore and participated in workshops and expert talks and also interacted with a keynote speaker from ASME, USA. It was a knowledgeable experience. One of our student secured 4th place in a Technical Poster Presentation event at this illustrious fest. The highlight was the event “Mech-A-Thon” which included building working models of specific problem statements in SolidWorks. Participation included students from our own college, other colleges in the city and even outstation colleges. The first prize was won by a team from our college. The overall event was appreciated for its organisation, innovative problem statements and collaboration with the industry.

Heartiest congratulations to all!!

The visit of the Accreditation Committee took place on 20th February 2019. It was an important event in the academic calendar and the combined effort of all in the department made the visit quite satisfactory and fruitful. The department has since acquired accreditation for the next three academic years.

An important event in this year’s academic calendar was a workshop on “Challenges and Opportunities in Processing and Characterization of Composite Materials”, organised under the aegis of BCUD, SPPU and the department. Eminent speakers from IIT and IISc were invited for conducting sessions lasting two days. Nearly 100 participants including faculty members from various colleges and professionals from industries were present for the workshop. The workshop was well received and appreciated by everyone.

In a nutshell, it has been an exciting year with lots of positive outcomes, important learnings and amazing experiences. The Mechanical Department strives to keep this momentum going in all spheres.

Best Wishes to All for a Bright Future.

- **Dr. A. A. Bhosale**

INTERESTING FACTS

- At over 2000 km long, the Great Barrier Reef is the largest living structure on earth.
- When Helium is cooled to almost absolute zero, it becomes a liquid with surprising properties: it flows against gravity and will start running up and over the lip of a glass container.

WORD FROM THE TEAM

Dear readers,

So, we come to the close of one more academic year. As a year closes in, we tend to look back to see what the year brought us and remember all that happened. The seventh edition of MechExpress hopes to jog up your memories of the academic year 2018-2019. We bring to you the achievements of faculty and students, the various workshops conducted in our department, an insight into the many clubs in our department, and last but not the least, interviews from our very own students which we believe will truly inspire you! Our team, this year, has worked hard to bring you the best possible ensemble that we hope you enjoy. We would like to thank all the faculty and students who contributed to this effort. Also, a big thank you to our department for supporting us and to Ms. Poonam Bhore for her guidance.

Happy reading!!!

DEPARTMENT VISION

To be recognised as a centre for quality education to develop women professionals in Mechanical Engineering.

DEPARTMENT MISSION

1. To impart knowledge and skills in the field of Mechanical Engineering.
2. To develop Mechanical Engineers with professional ethics, who will respond to the current and future needs of society through academic, industrial, and research activities.
3. Develop facilities for higher education and promote research activities.

ABOUT BS 6

The quality of air is deteriorating which has led to many breathing ailments to even younger kids besides the older ones.

To fight the poor quality of air, higher standards for emission were set up during successive years.

Current emission standard is set at BS 4. In January 2016, the government had decided to directly raise the next standard to BS 6.

For an engine to successfully adhere with BS 6 emission, it is necessary to provide similar grade or quality of fuel to it.

As of now, we can consider the BS 6 grade of fuel to be the cleanest fuel available.

NSS ACTIVITIES

With the adage, 'Not me, but you', we, the entire team of NSS performed several activities throughout the year till now and are definitely looking forward to perform more.

Starting the year with a great drive of Tree Plantation at Warje Hills, we, the students along with employees of Cummins Inc. first cleared the soil surface by taking out weeds and then respectively planted trees, thus creating a demonstration for our sustainable environment.

This was followed by an active participation of all Cummins College students on 'No Horn day'. NSS students gave information on the topic to all students of the college with distribution of bands, stickers and pamphlets.

Afterwards a cleanliness drive was organized where students went for a mass rally in Karvenagar and explained to people the need to segregate dry and wet waste.

The most pivotal event of NSS is the NSS camp. This year students went to the village of Khadakwadi, where students performed many activities like cleaning the entire village, removing weeds and also assisting in various healthcare activities like Blood Test Camp and Eye Check-up Camp. During camp, the volunteers cooked their own food. Various lectures were organized for the volunteers. Volunteers did various surveys in the village. They found out about the history of the village from the villagers.

Then, for the cause of women empowerment, Cummins College organised "Beti Bachao, Beti Padhao" event where students from SNTD College performed a street play and students were enlightened by speeches from PMC officials. On the Voter's day NSS students along with student panel members took an oath to vote and to be responsible citizens. The event was followed by a rally to motivate other people to vote.

Next activity was on 'Traffic Awareness and Road Safety measures' where students along with traffic police went for a rally at Karvenagar Chowk. The students made human chains and also distributed goodies to the people following Road safety measures. Based on the same, students also organized a seminar where Pune RTO officer and R.J. Kedar interacted with the students. This was broadcasted live on Radio city.

On the occasion of Women's day, a 'Blood donation camp' was organized. There was a good response from students as well as the staff. Students displayed posters paying tribute to all the great women. A highly energetic flash mob was performed by the students which geared up everyone.

NSS MEMBERS FROM MECH DEPT	YEAR
Rutuja Zargad	SY
Manasi Tayade	SY
Neha Deshmukh	SY
Anagha Ghutumkar	SY
Kanchan Avhad	TY
Manasi Joshi	TY
Vinaya Ingalgikar	TY

-
-
- **Shridevi Gutte (BE Mech)**

ASME CUMMINS STUDENT SECTION

The American Society of Mechanical Engineers (ASME), is a professional association that "promotes the art, science, and practice of multidisciplinary engineering and allied sciences around the globe via continuing education, training and professional development, codes and standards, research, etc." The ASME Cummins Student Section was established in the year 2015, by the two distinguished alumni of the Mechanical Department of CCOEW. Under ASME, various competitions, seminars, guest lectures and industrial visits are organized for the members. In the previous year, a National Level Design Competition "MECHATHON" was organized in collaboration with VIT, Vellore. Guest lectures were arranged on various walks of life, like 'Role of Women in the Armed Forces' by Major General Vijay Pawar, 'Recent Technologies in Artillery Gun Systems' by Abhishek Gupta from DRDO and 'Satellite Launch Vehicle' by Dr. V Narayanan. A visit to the National Defense Academy (NDA), Pune, was also organized. In the current year, 'Touch the Sky with Glory', a talk by a Wing Commander, Anupama Monga was arranged.

Events conducted:

- **GUEST LECTURE - 'TOUCH THE SKY WITH GLORY':**
ASME Cummins student section was graced by the presence of honorable Wing Commander,

Anupama Monga, serving the Indian Air Force as a Psychologist. She inspired the students to join IAF through her talk and journey. She informed the students about various sections of IAF like the Administrative Branch, Metallurgy, Accounts, Logistics and Maintenance. She also briefed about the ways in which the engineers can join IAF. 'You will be, what you will to be', 'Human potential is limitless, the secret lies in our willpower' were the messages given by her to the students.

- **GUEST LECTURE - 'IC ENGINES AND FUTURE SCOPE':**
The Student Section came up with another exciting guest lecture on IC engines. The guest lecturer was the General Manager of Kirloskar Oil Engines Ltd., Khadki, Mr. Naresh Gandhi. Students were briefed about the technological terms like deep bowl, high swirl, turbochargers, etc.
- **VISIT TO CUMMINS PHALTAN:**
An industrial visit to Cummins Phaltan was scheduled on 21st January 2019. The students got the opportunity to know about the Cummins Power Generation Business unit of Phaltan, which is one of the top Generator manufacturers in Satara.

- **VISIT TO TATA MOTORS:**

An industrial visit to TATA Motors was scheduled on 19th January 2019. TATA Motors, Pune plant is located in the Pimpri-Chinchwad industrial belt. The Pune facility houses some of the best manufacturing facilities in the automotive industry. The industrial visit nearly covered 11 kms of the plant. Students were briefed about the workings of blocks A, B and C, Paint shop, Press shop, etc. Students observed the manufacturing of leaf springs, gear boxes, engines, chassis, assembly line, welding, etc. The unit produces 730 vehicles per day. Besides commercial vehicles, defense vehicles are also manufactured in the plant.

- **Ojal Jawale (TY Mech)**

FORMULA 1 RACING

Formula 1 racing is the most technologically advanced, competitive and dangerous auto racing in the world. While Europe is the sport's traditional base, the championship operates globally. The Formula 1 series originated with the European Grand Prix Motor Racing of the 1920s and 1930s.

AMAZING FACTS ABOUT FORMULA 1

- The average cost of F1 car is 6-8 million. It is the price of the most basic components and doesn't include hundreds of millions spent on development and research.
- During the race, the tires lose weight. Each tire loses 0.5 kg in weight due to wear. Racing tires are designed to last 90-120 km. At top speed, F1 tires rotate 50 times a second.
- The best F1 pit crews can refuel and change tires in just 3 seconds.
- F1 car can accelerate from 0 to 100 mph and decelerate back to 0 in just 4 seconds.
- The weight of F1 car is 702 kg including the driver but not fuel.

GANDHAAR 2019

Amidst the four years, eight semesters, countless submissions and exams there comes a breath of fresh air every year-GANDHAAR. It is not just a cultural event for students of Cummins College but much more than that. It is a platform for budding engineers to nurture and showcase their talent. It is a learning experience in terms of organizing, planning, execution and working together as a team for all the student panel members and volunteers.

This year Gandhaar was celebrated from 15th March to 18th March 2019 with the intercollegiate day being on 17th March 2019. The cultural festival of four days required planning of two to three months. The theme for this year was **INDIA-Incredible, Diverse, Astir**; an emotion very close to the heart of everyone. The four days followed the themes- 'Harishchandrachi Factory', 'How's the Josh?', 'Ready for the world' and 'Sanskriti Day.'

A new concept was introduced this year. Cummins College of Engineering for Women, had its very own 'Dhol-Tasha Pathak' consisting of faculty members and students. Gandhaar inauguration took place with an amazing performance from Dhol-Tasha Pathak, amplifying the energy of students with its beats. This venture was possible only because of the constant support, cooperation and enthusiasm of faculty members.

The cherry on the cake for mechanical department was to win 'Best Department Award' for the third consecutive year.

Also, TY mechanical was announced 'Best Class.' These two victories made everyone associated with mechanical department very happy and proud.

The four days of Gandhar credited the efforts entire department had taken for a year and gave us the fuel to carry on till the next one comes.

- **Aishwarya Landekar (TY Mech)**

DID YOU KNOW ?

- 77% of world's spices come from India.
- India has more people using internet than the entire population of USA.
- During World War 2, India produced world's largest voluntary army of over 2.5 million men.
- Khasi people in Meghalaya build living bridges from tree roots.
- India has 122 major languages and 1599 other languages.

INNOVATION 2019

After the successful Cyclothon event last year, Innovation 2019 was a bang with one more event, the Faster Fixer. Both the events drove the students to deep levels of nuts and bolts.

The planning started from scratch-deciding and finalizing the events, deciding rules and regulations. Vandana Sakhare, Assistant Technical Secretary, had 2 coordinators for each event-Manisha Vasatkar, Apurva Zingade for Cyclothon and Kanchan Avhad, Sayali Mulatkar for Faster Fixer. A team of 21 volunteers assisted the coordinators. The students were guided by Prof. Nitin Patil, Prof. Mandar Vahadne and Prof. Shridhar Kedar.

After finalizing the events, students geared up for further tasks - finding vendors, arranging bicycles and tool kits, training the volunteers, publicity of the events and so on. Their hardwork paid off! Due to the large amount of interested people, registrations had to be reopened. There were 85 teams for Cyclothon and 40 teams for Faster Fixer.

On both the days, 'josh' was really high in the premises! Each team was assigned one volunteer, who kept a watch on time and checked whether the assembly was safe to ride.

In Cyclothon, the participants were supposed to assemble the entire cycle to ride in race. Faster Fixer participants had to figure out a defect in the cycle and repair it in order to race with other teams.

Volunteers were present with each team to avoid accidents.

Last slot of the event was the Faculty Round, which was a fun round for both the students as well as the professors.

Thus, INNOVATION 2019 was a huge success. All the coordinators had great support from the faculty and students of the mechanical department. The students faced difficulties while managing the events. But they learned to find solutions to the problems. Skills like meeting the deadlines, attending the minute details of the problems, time and man management were garnished.

Innovation 2019 ended with the hope of lots of new events for Innovation 2020!

- **Mayuri Kirve (TY Mech)**

INTERESTING INNOVATION

A Tony Stark style jet suit

Designed by English Inventor Richard Browning and made by Gravity Industries, the jet suit consists of 5 small kerosene-fuelled turbine engines, two worn on each arm and one on the back. It can be used for flights of up to 4 minutes.



TEAM ZENITH 5.0

BAJA SAE INDIA 2019

BAJA is an intercollegiate competition run by the Society of Automotive Engineers (SAE) where undergraduate students from different colleges participate to design and build off-road cars. The goal of this event is to design, build and race off-road vehicles that can withstand the harshest elements of rough terrain.

Team Zenith 5.0, the official BAJA team of Cummins College, participated in BAJA 2019 event which was scheduled from 22nd- 27th Jan 2018 at NATRAX, Pithampur, Indore, Madhya Pradesh. It was Zenith's 7th year in BAJA.

We, a team of fifty grease hands, twenty five passionate minds and one single dream. The dream called ARMOUR. ARMOUR, which is rugged yet refined. Team Zenith 5.0. started back in the month of March 2018, where a total of 25 automobile enthusiasts from Mechanical engineering department, Electronics and telecommunication department and Instrumentation and control department came together.

After a rigorous study, designing using different software like SOLIDWORKS, CATIA etc. and analysis using ANSYS, HYPERMESH etc. of various components and successfully mapping the required and desired parameters, the team was ready to face their first challenge, the Virtual Round. The virtual round was held at Chitkara University, Chandigarh on 12th-14th July 2018. Five members from the

team represented the team and college at the event. The team had to present their car with the help of CAD designs and also face a question answer round to check if the team understands automobile sector. After successfully clearing all the categories Team Zenith ranked 14th all over India amongst the 400 teams that participated in this first phase and total of 120 teams qualified for Pithampur-the main event. This virtual rank was a clear motivation for the team to dream big and get it into reality.

The team started with the manufacturing of the buggy in full swing in the month of July after the first phase. Right from roll cage prototype to the final one, making stiff and stable suspension and wheel fixtures, notching and welding the tubes, getting the components manufactured and assembling them together, the team took immense efforts to maintain the symmetry of the vehicle and reduce various other errors. Working late nights, going to unknown places with aim and determination, getting our hands dirty on the shop floor, dealing with technical surprises and lot more everyday made our journey thrilling and memorable. Finally on 14th October 2018, the team had their first successful test run and then the rigorous testing phase commenced. The car testing was carried out with a view of all the events like acceleration test, brake test, maneuverability event, suspension traction event and the 4 hours endurance race. As the car was ready well in time the team got enough time to prepare for the main event.

MAIN EVENT

DAY 1

At the main event, as per schedule the team successfully registered for the main event and was done with onsite registration. Also unloading of car is done on same day and team was ready with prepared pits.

DAY 2

On second day team cleared the technical inspection and we were the fourth team clearing technical inspection. Getting this clearance as early as possible was very important this year as in the previous Year the team had faced many challenges. Team Zenith was amongst the first four teams to clear TI.

DAY 3

After this the team was ready for brake test which is next part of technical inspection and as per schedule team cleared brake test on time. Also team went for Engine check and weight check.

Weight of this year's car is 159.6 kg which is almost 18 kg less than the weight of previous year. In engine check team got an good remark as our engine was quite well maintained and response of the team during the check was quite fast. The cost presentation and sales presentation took place on the same day

DAY 4

The acceleration test was opened on the fourth day, and we successfully completed the same with an acceleration time of 5.83 sec. The Design Evaluation of the team took place on the same day.

DAY 5

On the fifth day we completed all dynamic events successfully. We went for two attempts of maneuverability, rock crawl and suspension and traction each.

DAY 6

Team Zenith was all set for the final 4 hours endurance race with full confidence. The team faced problems with the accelerator cable, kill switch and the wishbone during the endurance hence the team lost some time but the team responded quickly and bought the car back on the track and completed the endurance with 10 laps.

Team Zenith 5.0, an all girls team from the Cummins College of Engineering, Pune won the Cost Presentation and ranked 38th all over India in Baja SAE, 2019 competition and 5th in Sales presentation.

It was indeed a very proud moment for all us as in spite of encountering setbacks during the event the team did not lose confidence but came out stronger every time and successfully completed the event. The team also performed exceptionally well the static events. The fellow competitors also gave a tough fight. BAJA SAEINDIA 2019 was a great learning and growing experience for the team and the team will come back more stronger in the upcoming BAJA SAE INTERNATIONAL event at Tennessee.

BAJA SAE TENNESSEE 2019

Baja SAE India results only made us fiercer and we started gearing up for Baja SAE International. We began by rectifying our mistakes, making changes to the car, changing its aesthetics and implemented a more rigorous driving practice. We set our aim higher and were determined on not returning empty handed. A lot of effort was put into the car in the course of 2 months. The event dates were 11th,12th,13th April. We had shipped our car in dismantled condition from India to Cookeville, TN. It took us two days to assemble the car and two more days to test it. The weather was unpredictable and kept surprising us.

MAIN EVENT

DAY 1

Completed registration onsite and reserved and parked our truck which contained our car. Cleared engine check. Collected our technical inspection slot number. Team members went for the business presentation in the afternoon.

DAY 2

Early morning cost presentation went on time followed by the design presentation. After that we lined up for technical inspection along with our car. Unfortunately, technical inspection did not get cleared in the first attempt and we were left with few changes to be made. Changes were made to roll cage, kill switch and CVT.

DAY 3

With all the corrections made we cleared TI immediately. All dynamic events were open on day 3. Attempted brake test and passed. We then lined up for acceleration and clocked a time of 5.22 seconds.

Then team headed for sled pull event and gave two attempts of it. The team then changed the settings of the car for maneuverability. Two successful attempts of maneuverability were given.

Due to bad weather forecast, the endurance race got postponed and was scheduled at 3pm. This left us with no time to complete all dynamic events, therefore, leaving out suspension and traction event. The team was allotted grid position 10 for the race.

Despite of all the unfavorable circumstances we prepared our car for the race with full confidence.

The car endured the race with no failure. We completed 24 laps in total.

We thank the entire college, our families and our sponsors for having faith in us and giving us this amazing opportunity to work here, to learn here and to take away so many important things.

Emerge Glorious!

Some dream their #own

Some buy their #own

But we build our #own

We live for the glory,

We work hard to achieve it,

We raced towards ZENITH!!

**- Komal Salgar
(Captain, Team Zenith 5.0)**

WORKSHOP ON 'COMPOSITE MATERIALS'

**Event coordinators:
Dr. Ravindra Ingle
Prof. Yashwant Mundhe**

Polymer matrix composites have various applications in the aerospace, automotive and marine industry because of its high strength and light weight characteristics.

A two day national level workshop on the topic 'Challenges and Opportunities in Processing and Characterization of Composite Materials' was arranged on 14th and 15th of December 2018 by mechanical department. The objective of the workshop was to disseminate the state of the art knowledge to the participants and promote them to undertake research in the upcoming and leading area. The workshop was open for faculties working in engineering colleges, industry delegates and students pursuing masters and PhD. Third year students from Cummins College who had elected the subject 'Mechanics of Composite Material' were also in the attendance for the first introductory day.

The speakers for the workshop were the eminent personalities in the field of composite materials such as Dr. Indradeep Singh (IIT Roorkee), Dr. Ragvendra Gajjal (NIT Warangal), Mr. Suhas Kolhatkar (Composite Designs and Technology), Mr. Vivek Joshi (Epsilon Composite Solutions), Dr. V.B. Tungikar (SGGS Nanded), Dr. I. Siva (KARE

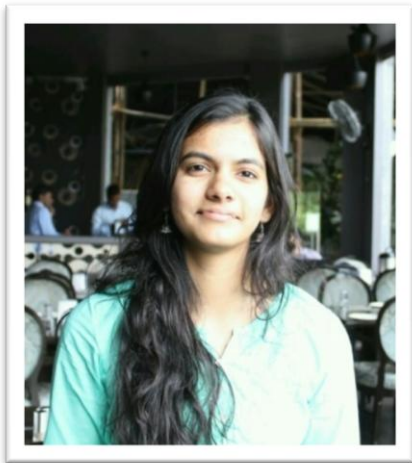
Virudhnagar), Dr. Ashok Mache (VIIT,Pune) and Prof. Prashant Anerao (VIIT, Pune).

The first day was dedicated to introducing the topic and discussing design of innovative composite structures. Dr. Indradeep Singh delivered the inaugural lecture on the basics of composite materials and his easy explanation of difficult concepts particularly engaged the audience. He further emphasized on the need of natural composites instead of polymer matrix composites for the protection of environment. First day ended with the demonstration of processing of polymer matrix composites by using vacuum infusion method in the composite laboratory of the college. The laboratory is equipped with compression moulding machines, universal testing machines, impact and toughness testing machine.

The lectures arranged on the second day delved deeper into the topics like "Development and formulation of finite element analysis of composite laminates", "Tribological and vibration damping behaviour of polymer matrix composites", "Impact energy absorption characteristics of composite material", "Research perspective concerning polymer matrix composites". The content and the execution of the workshop were greatly appreciated by the participants. The department wishes to conduct many such workshops on the forefront research topics in the future

- **Kshitija Kulkarni (TY Mech)**

BEST OUTGOING STUDENT'S INTERVIEW



PURVA RAJADNYA

Q. Hello Purva, heartiest congratulations! How does it feel to be awarded as the best outgoing student? Did you expect the results?

Hello! Thank you, Kshitija. It is indeed overwhelming to receive the Best Outgoing Student award amongst a class of 80 students. It gives me great pleasure to represent Mechanical department on these fronts. I am very grateful for my efforts being recognized and well paid off! No, I can't say I expected the results because all the candidates appearing for the interview were equally good. So I was pleasantly surprised when my name was announced.

Q. What was the process like? How did you prepare for it?

The process started with selecting a set of students based on their resumes. Lastly,

we were being interviewed by a panel of professors. I feel the preparation for being a best outgoing student starts right when you enter the college, except the recipe varies from person to person. Enthusiastic involvement and the honest efforts you put in whichever activity you participate, affect the process the most. It's not just about how many great things you achieve but also about your personality and the way you interact with others. Apart from individual achievements, contribution to the department and to the college is equally important. For me, Purushottam karandak and Cyclothon were the two main breakthroughs.

Q. You were the event coordinator for the first ever 'Cyclothon', which turned out to be a big success. Tell me something about your experience. How did that idea come to you?

Cyclothon was certainly a wonderful experience! The event was interest driven, immensely supported and correctly geared and hence evolved into a great success. The basic idea was to explore simple mechanical things around us. A bicycle was the best fun- learning example in day to day basis. Moreover, an emotional attachment with a cycle encouraged the idea. Exploring the very roots of it further resulted into designing of the event.

Q. How did you manage your academics and extracurricular activities?

Art was a major part of my life since childhood, be it painting, sketching, writing, acting or singing. Later,

badminton shaped my attitude and art developed my thoughts. I believe that fulfilling what your soul craves for helps in improving your thinking pattern. A happy and satisfied mind can easily engage into problem solving; which is in turn a vital part of engineering. This simple artistic science equation helped me in rightly and timely prioritizing between the two.

Q. If you could change one thing in last four years of engineering what would it be?

Last minute exam preparations and submissions! Starting late and doing everything at once was very tiresome and I could have saved myself a lot of trouble and efforts had I changed my habit of procrastination.

Q. As a soon to be graduate, what would you miss the most and the least about the college?

I would miss Purushottam karandak practice sessions the most and miss the vivas the least.

Q. What memories would you cherish the most from your college life?

Real friendships, late evening canteen discussions, industrial visits, lifetime advices from our professors, representing and performing for the college and a happening hostel life.

Q. What are your plans for future? What do you aspire to do as a mechanical engineer?

I wish to pursue my career in Mathematics. I will be working in Cummins India for some period and then arrive at a decision taking my job experience into consideration.

Q. Lastly, is there any message you'd like to give the readers?

Our college provides and encourages different platforms to develop every single facet of your life. Explore as much as possible by participating and contributing to the events that are being organized, for these four years are the best years to experiment and to know what exactly you are!

- **Kshitija Kulkarni (TY Mech)**

FUN FACTS ABOUT BICYCLES

- First bicycle-like transportation device was created in 1817 by german baron karl von drais.
- The world bicycle is created from the french word "bicyclette". Before this name, bicycles were known as velocipedes.
- Over 100 million bicycles are manufactured each year.

ALUMNI INTERVIEW



ANKITA NIGADE
CONSULTANCY MANAGER
SECO TOOLS (PART OF
SANDVIK GROUP)

Q. A very good morning Ankita. You work abroad, so are you in Pune for your vacations or is it all work here?

I came to Pune nearly 1 month before for work. As my Visa is in process, I am working remotely. So unfortunately, I have no vacations.

Q. Where do you work currently?

In Pune, Seco tools office at Koregaon Bhima. After I return to Germany, I will be working at Erkrath as a Consultancy Manager.

Q. How was your experience as a student in the Cummins College?

It was indeed a very good experience. All the professors of our department are very

helpful and easily approachable. When it comes to friends, our class had a well-bonded and a well-connected network. We used to help each other and do mischief together. I am still in touch with the close ones.

Q. How much of what we learn in these 4 years is applied in the industry?

If you go to an engineering role in the industry, then it is quite connected. For instance, we have designing, CAM programming and FEM as our subjects, which do exist in the specific departments in the industry. For me, I was at Cummins in the Supply Chain Department, so the concepts learned in engineering were not connected.

Q. What does a company seek in the fresher's?

This basically differs from one company to other. It depends upon what are their core values and their work culture. This sets their expectations for the candidates. On a general scale, academics play a major role. But, you should be confident, flexible and courageous enough to prove that you can do whatever it takes.

Q. Accordingly, what do you think should be changed in the undergraduate curriculum of engineering in India?

I and my friends struggled with the problem of the lack of link between the theoretical and practical knowledge. We focus a lot on the theoretical part, but in practise, it becomes tough to apply the

knowledge. So, this link should be developed in the undergraduate course. While doing my Masters in Germany, we were exposed to the industries quite often. We could see and feel what we had to do, we were given case studies of the industries and there was a lot of collaboration with the companies.

Q. Tell us about your journey after completing graduation.

After graduating, I joined Tata Cummins at Jamshedpur. I worked for 6 months in the supply chain department as a Material Planner. In the next 6 months, I worked at the Phaltan location in the improvement projects for the logistics department. It was about the warehouse optimization, streamlining the material flow, etc. Then I went to Germany for my Masters in ‘Automotive Management and Engineering’, a dual degree program. After this, I joined Sandvik. I was a part of the Global Graduate program at Sandvik. During this period, I worked in India for the Machine tools business, in Sweden for mining equipment’s business and in UK for business development. Currently, I have joined in Germany as a Consultancy manager. It is related to Industry 4.0.

Q. You have worked in India and Germany. So how is the work environment different in both the countries?

The culture plays a major role in the work environment. In India, the system is hierarchical. You always have to keep him/her in the loop and you cannot take your own decisions. In Germany, it is a bit

hierarchical but less restricted than in India. There, you are a bit more empowered; you can take decisions and risks on your own. You are allowed to fail, if you are ready to take the responsibility of the failure. Such things create a lot of difference while working.

Q. You are a National level Swimmer. What were your achievements in swimming?

I was an Open-sea Swimmer. Among all other achievements, the biggest ones are the 81 km river swimming in Kolkata and 70 km sea swimming in the Arabian Sea. I have been awarded as the fastest and the youngest swimmer for the 70 km event. Apart from that, I also did short distance swimming like the 100 m and 200 m events. I have a National Bronze for the 100 m butterfly event. I continued participating in such competitions till the 9th grade.

Q. Did you continue with swimming or any other sport when you were in college?

I did not participate in competitions back then. But for fitness, I always swim. I also do trekking and cycling. These three sports are always on my list.

Q. What are your future plans?

As Industry 4.0 is in its early phase, there’s a lot to learn now. As I just started with my new position, I feel that this is a very good opportunity for me to learn and

develop myself. So, I am not looking for any change for at least 2 years from now.

Q. Any message for the students who will soon be working in the industries?

I would say that, it is not always about delivering and showing your competencies. But it is also about our attitude, which we tend to forget. Be humble, network with more people as there are a lot of knowledgeable people out there. Try to learn as much as you can from them because it will help you in the long run for sure. So grasp whatever you can from your colleagues and superiors. Do not put yourself in a box. Try to explore, learn and step out of your comfort zone whatever it may be.

-Nayan Parabat (TY Mech)

ABOUT SANDVIK

Sandvik is an engineering group in mining and rock excavation, metal-cutting and materials and technology. Its headquarters are at Stockholm, Sweden. Sandvik's operations are organised into three business areas responsible for R&D, Production and Sales of their products and services.

WHAT IS INDUSTRY 4.0 ?

Industry 4.0 represents the fourth revolution that has occurred in the manufacturing sector. This revolution will enhance the adoption of computers and automation with smart and autonomous systems driven by data and machine learning.

History of Industrial revolutions

Industry 1.0:

It began in the 18th century, through the use of steam and mechanisation of production. Instead of weaving looms powered by muscle, steam engines could be used for power.

Industry 2.0:

It began in the 19th century, through the discovery of electricity and assembly line production. The vehicles were produced in partial steps on the conveyer belt- at a faster rate and lower cost.

Industry 3.0:

It began in the '70s in the 20th century, through partial automation using memory-programmable controls and computers.

THE EXPERT REVIEW

MR. HARSHAL PATIL

CEO, BTB VENTURE



Mr. Harshal Patil

Mr. Harshal Patil is Co-founder & CEO at BTB Venture & Magnet Insights. Mr. Harshal was Presales partner with Wipro and Director with two mid-size companies. BTB Venture has been nominated among India's fastest growing startups at Silicon Ind. He's helping 230+ companies across the globe to scale up their revenue with team of 45+ consultants in Pune.

(Email Id: harshal.patil@btbventures.com)

Q. Good morning Sir. We are pleased to have this opportunity to interview you. Please tell us a little bit about yourself.

Good morning and thank you for having me. I started my career with Wipro almost a decade ago and I used to work with Telstra, one of the largest telecom

companies. I helped Telstra to set up processes for presale. Then, after quitting Wipro I joined 3 different companies and helped them grow from the start-up bracket segment to the mid-size range. The shift that I made from a Fortune 1000 company to a start-up was very intentional and the purpose was to help companies to grow. The first company that I joined after Wipro was in 2015. When I joined, their size was 15-20 employees but by the time I had left, it had grown to almost 120 people. This is where I got the idea that I could help other companies to do the same, including the large-scale ones. And that is where we started BTB Venture. Currently I am the CEO at BTB Venture and we are a team of about 50 employees working from 2 offices based in Pune itself.

Q. Can you share your journey from graduation to starting your own company, BTB Venture?

So, in college I was a big-time failure. I actually even had a year drop in college due to a subject in the first year, Engineering Mechanics. I was always very weak in mathematics and I never scored more than 60%. That is how my journey started as a matter of fact. But what I now feel is that those failures were the most important part of my life. At the end of the day it is the failures that teach us what to do next and I have had certain times in my life, the lows, when there was nobody beside me. Before I joined Wipro I was a rather bizarre person and lost out on many things in life. Somehow after joining them I realised that the best part about my journey was the learning that I acquired out of all the little failures that I experienced. So, the failures played one of

the most important roles in my life. I have been seeing failures right from first grade and the kind of society that we live in, the scores have too much significance. I used to be judged because of my poor academic performance but never appreciated for the other activities that I used to be a part of. One thing that kept going this entire time was just those failures. For example, getting no sales in a company is also a failure. I have seen that there are hundreds of companies that are facing the same issue; they are not collecting enough revenue. In order to actually collect this revenue, (laughs) the grades are not the primary tools. I respect knowledge but what I have seen in my journey is that the real business value that you as a person will bring to the enterprises will enhance the businesses more than your grades. That is another key learning of my journey. Another crucial part was the curriculum at Symbiosis, I sincerely appreciate that. There are certain basic business principles I learnt there during my MBA, some of which I follow on a daily basis – like Blue Ocean Strategy, Six Sigma Strategy, Porter's Column Strategy. These are some strategies that I am a die-hard fan of. These are certain principles that will keep you going.

Q. Having finished your graduation, how did you decide to do an MBA at that point of time?

To be very honest, it was just an accident. It was not a decision that I had thought through. I am a programmer by my initial background. During my Wipro days, they had a program in which they would shortlist people based on their hardworking nature and problem solving

attitude. So one of those times I got shortlisted and got enrolled to the program. Nothing was planned at that time. However, in those years, I used to work for 20 hours daily, because the MBA program would be around 6-7 hours long and then the rest of the time I would be at my job. I also used to work on the Australian ships. It was a tough time managing this kind of a hectic routine along with my health but somehow it was a critical learning phase for me. So I would say that some accidents are actually good. But I would definitely not recommend this. It was just a lucky accident for me. MBA is something that I believe is a part of your own nature. You don't need to go out there and study management in order to imbibe some of the fundamental values.

Q. So, you actually stressed upon the challenges that you faced in your journey from launching the start-up to where you actually are today.

Yes of course. One of the biggest challenges I faced in the beginning phase was the funding. I was still working with another company so I only had some of my savings, and zero rupees in terms of external funding. So I put in my entire savings to fund the start-up, I conceptualised the idea and I put in a lot of efforts for it. My initial investment was just the Rs. 15000 that I had put in. Today our revenue is over Rs 1.5 crore annually. This journey was a rather difficult one. When I first started out, I started in the bedroom. My wife actually even quit her job and so I asked her to perceive my idea. And then we got our very first client onboard. I personally handed that client on my own at the ground level. I observed the

speed breakers that were there on their path and helped them tackle those through systematic processes. Gradually we hired our first employee. Then we started consulting 2 clients at a time. In the next 4 months, we then hired 5 more employees. It was a very gradual process. A critical challenge that I faced was the lack of a mentor. Usually when you set out with start-up, you are out there doing it on your own. Your best mentor at that time is yourself. I used to watch certain shows like Shark Tank to understand how the financials have to work. I realised that I had to match the industrial scale. I was not aware how the industry functioned, what were their commercials or how they used to run their strategies. The TED Talks and Economic Times content also helped me a great deal to avoid or tackle any kind of challenges that I would face. Then of course, our main strength was sales so it was not very difficult to get our first set of clients.

Q. What was the driving force for you as an individual? What made you keep trying to make this work, and what was it that never let you give up?

I think one of the things that I believe in is that there is a 100% difference between customer service and customer experience. I never let myself enter the customer service zone. I was always in the customer experience mode. My end motive is to always take a look at what the customers are experiencing. I always like to step into their shoes to experience what they are going through and then addressing that particular pain is the most important thing. Even a small pebble in your shoe can trouble you a lot. The aim is to identify

that pebble. At that point it does not matter what kind of shoes you are wearing. Shopping is a secondary aspect, the first target should be to remove that pebble. Identifying those small challenges that companies were facing was my main motive. Customer experience is what I focussed on, and that made the customers notice my value. My work was reaping benefits for the CxOs. Making my customers happy, striving for excellence is what made me happy and kept me at it. The trick is that if a customer is expecting 100% and we give them even 20% extra, that is where the real value of your work comes in and is noticed by those around you.

Q. Usually start-up are of a product or an idea, but your start-up is different, its an idea to change other business models and help them grow. How did you conceive the idea to help others?

I worked with three companies with certain principles, different for all three, I worked for the company to help them grow from 15-20 people to 100 people. So these ideas got integrated and I started working for other companies. Recipes are different for every company. That is what the company needs to understand and it cannot be learnt from the book. The detailed knowledge of how the companies are carrying out their processes and how they are working now will guide us to their plan for success. So I did a session of 6 months with myself. I made an excel sheet of the companies and put in the details. I did an extensive research on how these companies can be grown. That also helped me learn a lot.

Q. You have already successfully consulted 200+ companies. Getting your company from a start-up to this level, in such a short span of time (1.5 years), what is the secret of your success?

I must say that the only thing that I have been following for the last 1.5 years is to not work for more than 12 hours a day. (laughs). There is no need to overload oneself with work. If you can work for 12 hours with complete concentration, that is enough. Talking from a strategic standpoint and scheduling point of view, I divide my day into 3 parts. One is specifically for how my company is expanding, second is for what my current customers are experiencing, and third is for what can I do for myself to enhance my performance. Continuous improvement is the only thing that I am looking for. In fact, I actually never appreciate my company's employees. Acknowledging the completion of a task is necessary. Whereas if I tell someone that they have done an excellent job, there is no scope left for improvement. Appreciation can be a very dangerous thing in some aspects. The time we say "yes I am completely done with this", we are finished. We must always strive to be better than what we are today. It is one of the most critical values a person must have.

Q. As your company is only 1.5 years old, what vision do you have for your company?

So, currently we are working in 4 different spheres. One division is BTB Venture where we are solely working on demand generation. Secondly we are getting into Public Relations. We recently had a tie up

with one of India's biggest broadcasting services and one of the big entertainment houses. We are also in conversation with online video streaming giants. Our intention is to now help the CxOs to brand themselves worldwide. Nowadays, marketing is evolving everyday and this evolution can only be credited to how the CxOs are carrying themselves in the industry. We want to reinvent the way that these companies advertise themselves. Traditional methods like customer contact and attending events is what they are still into. At BTB PR that is what we want to change. Thirdly, we have a large real time platform that will be utilised by some though leaders to avoid their business challenges in a neat and clean way. Right now, there is no such platform that can help a company to monitor a CxO's performance using a dashboard. The fourth avenue is Magnet Insights, which is still in its inception phase (the website is live though). We have interviews of several CxOs online. Magnet Insights is going to be the first online community backed by analytics where decision makers across the globe will participate. These are the 4 enterprises we are currently driving and you will see growth in the coming quarters.

Q. So is there one particular goal that you have for your company?

Yes absolutely! The main aspiration I have for the company is that the company should embrace expansion. They should not limit themselves, the work should be focussed but the scale must be massive. There are companies that may be striving to succeed and have had only 4-5 people for over a decade, that is one thing that

must be gotten rid of. Expansion is necessary. It may be a product or a service, but there are a set of milestones each company must achieve in terms of revenue, number of employees and so on. That is where I intend to help the companies to come out of the rut without spending a lot of money. Companies that are spending a lot of money are going into debts just because of high expenses. I believe that the money must be spent wisely while simultaneously scaling the company up.

Q. Moving a little towards a college oriented discussion, you sponsored our event Cyclothon & Faster Fixer for our technical fest, Innovation. How was your experience?

It was a brilliant experience, in terms of the students as well as the organisation. When I visited your campus, your hospitality and the way that you hosted the event was the most overwhelming experience. I felt like I was a part of Cummins College myself. The other thing that was rather impressive was the kind of response that you received, so many registrations and even the size of the crowd that had gathered. The events that I have been a part of prior to this - compared to that, the crowd and their enthusiasm here was great. I must say, I found the concept of the event (assembling a cycle and racing) extremely innovative. The challenge was not very big but I got the opportunity to observe the approaches and to try to understand the mindset that different participants were adopting. I am really honoured to be associated with Cummins and I am very glad that I could associate myself to the event.

Q. Thank you for your kind words Sir. We too are honoured to have your association. What kind of attitude and mindset should a student have as far as start-ups are concerned?

The first and foremost thing that a student should remember is that, they shouldn't quit a job by just getting an idea. Proper diligence is important. But a substantial risk is also very important. You need to have a heart of black stone. That is something the students can work on psychologically, they can make their heart very strong. Start-ups depend on three main factors. First is the value, that is, what value we are bringing to the market. Second is the time, is the time right for the idea that they have come up with. Even if you get 80 different ideas in a day, if the time is not right then they are of no use. Third is the revenue that you are earning from the market. I recommend that for the first two years, your focus should be on adding value and not earning money. After two years you can think of money. These things are very important for the student to know and understand.

Q. How were you as a student? Did you lead events or participate in them?

No, not really. I have never hosted an event. I was a back bencher. I used to bunk. But after a certain time I was frustrated with myself. So my bunks used to be more because of the frustration. But I would say that these small failures were the tough part and I learnt from them. The more stones that are thrown on you, the stronger you will get. Then there is a point of self realization, where you know that you have screwed your life and you have to get it

back on track. That is the time I thought of doing a start up.

Q. Nowadays there are many students who come up with start-up ideas. Not only are there government funding schemes but also a platform provided by the college to the students to present their idea and and get funding for it. What is your take on this?

I am hundred percent in for this. I would love to guide and mentor the students. The best part of it is that students actually do come up with the best of ideas now days. I admire these schemes and I would love to be a part of it. I can immediately give my email address and they can get in contact with me. I would like to give my take on their ideas, as to what the competitiveness in it is and my SWOT analysis of the idea. The ideas should not go waste. That is very dangerous. As Jack Ma says, “People dream of an idea and then the next morning they just go to their regular jobs (not giving the idea due thought).” So providing proper mentoring is very necessary.

Q. What does India today need more, entrepreneurship or employment?

If from every home entrepreneurs come up, then it will be a chicken and egg problem, as then who will do the jobs. Entrepreneurship can be applicable to the company also where they are working. So, Satya Nadela is entrepreneur but he is working for a giant company. So when you join new company, your aim should

be to become a CMO. So employment with an entrepreneur mind set is needed in India today. Also I would like to add, students aim for going to foreign countries for PG. But India in the next 10 years will be the biggest economy. We will be the leading businesses through Cloud, enabling business deals to be carried out from across the globe just by sitting in one place. India is a growing nation and so it needs the students’ capabilities to stay within the country.

Q. This is actually a fun question. What is the story behind your name of the company?

(Laughs) I started the company but had to close it after a few months as I was not able to dedicate my time fully to it. Then I started it again and the purpose was to serve the companies in business. So the name has two meanings, Business to Business and Bring the Business. So in Business to Business is to bring the business to help them grow. And so B-T-B.

Q. When you look back now, is there any particular incident that you remember that changed your life?

One of the best decisions that I have made was to start BTB Venture. I attended one of the largest events in Mumbai. I met about 85 entrepreneurs that time. They all said they have a really compelling idea but the idea is not transforming into revenue. When I was on my way back on the highway, for those 3 hours, only one thought was resonating in my head that is why companies were not getting the

revenues? If value is there, there has to be revenue. That was a session I had with myself and that was a classic moment I had. I already had 3 companies who had followed my ideas and I had helped them grow. Then why not make it for the mass. I feel that the life changing moments are very small but they hold a great value in your mind and life. That is the intuition I got in those three hours.

Q. What advice would you like to give to those strugglers out there, who are confused in life as of what to do, or have an idea but don't know how to go about it?

Good question. What employees nowadays want is that, their role in the company should be brutal and they should be able to solve big problems. But that is wrong. Even if your role is to solve simplest problems, then you are making a huge difference. And then after solving the problem you should be able to sell yourself. That will make a difference for you as well in the organization. For having an entrepreneur approach again, the three things that I mentioned earlier are to be done. So whether the idea is adding value, if it is at the correct time and the intuition is 100%. So you are either a small part of a big process or a big part of a small process.

Q. Anything more you would like to share with us?

Yes, I am very happy to be associated with Cummins College now. I am always ready to render help to the projects and processes in college. Thanks to Prof. Nitin Patil and your TPO.

Thank you sir!

- **Shreya Jahirabadkar (BE Mech)**
- **Anushka Mookherjee (BE Mech)**



**FUN FACTS ABOUT START UPS
IN INDIA**

1. India is the third largest tech start-up location globally, behind USA and UK.
2. We have Indian start-ups breaking into global lists of most valuable start-ups.
3. Funding is concentrated in just 3 urban areas – Bangalore, Delhi and Mumbai (respectively).
4. Two-thirds of all start-ups in India are just in above mentioned 3 cities.
5. India is the youngest start-up nation in the world. 72% of the founders are less than 35 years old.

RESULT ANALYSIS: MAY 2017 - JUNE 2018

Second Year Mechanical Engineering (Top 10)

RANK	LAST NAME	FIRST NAME	GRADE
1	PATIL	SNEHA	9.04
2	GOSAVI	PRAJAKTA	8.95
3	RANE	SUHASANEE	8.89
4	AGRAWAL	RUTVI	8.87
5	APTE	ANUJA	8.71
6	KULKARNI	KSHITJA	8.63
7	DESHMANE	BHAGYASHREE	8.59
8	MANE	SHITAL	8.55
9	DESHMUKH	PALLAVI	8.48
10	NANDRE	AARATI	8.47

Third Year Mechanical Engineering (Top 10)

RANK	LAST NAME	FIRST NAME	GRADE
1	DHOKEY	APURVA	9.24
2	BHAWAR	SNEHAL	8.91
3	DAPHAL	DNYANESHWARI	8.80
4	BHOJANE	MEGHA	8.74
5	GITE	SHWETA	8.65
6	BANDIWADEKAR	SIDDHI	8.57
7	GUTTE	SHRIDEVI	8.48
8	PONKSHE	AISHWARYA	8.43
9	UNDE	AVANTI	8.43
10	GEJJI	ABHA	8.39

Fourth Year Mechanical Engineering (Top 10)

RANK	LAST NAME	FIRST NAME	PERCENTAGE MARKS (%)
1	GNANASEELAN	DEEPTI	80.40
2	BHOPATKAR	RADHIKA	79.93
3	PATKI	AKSHATA	79.80
4	KULKARNI	RASIKA	78.87
5	UPENDRA	ANUJA	78.80
6	BHARATI	AVANTIKA	78.53
7	JOSHI	AISHWARYA	78.07
8	MORE	PURVA	77.80
9	DESHMUKH	TRUPTI	77.07
10	MAHAJAN	AKSHATA	77.07

SUBJECT TOPPER

SEMESTER I

SECOND YEAR

SR.NO	STUDENT NAME	SUBJECT NAME	MARKS
1	Patil Sneha	Engineering Thermodynamics	90
2	Rane Suhasinee	Materials Technology-I	72
3	Mane Shital	Manufacturing Process-1	67
4	Gosavi Prajakta	Electrical & Electronics Engineering	78
5	Gosavi Prajakta	Principles of Economics and Finance	87

THIRD YEAR

SR.NO	STUDENT NAME	SUBJECT NAME	MARKS
1	Dhokey Apurva	Design of Machine Elements-I	88
2	Bhojane Megha	Heat Transfer	81
3	Dhokey Apurva	Theory of Machines-II	77
4	Lakhe Aboli	Metrology and Quality Control	81
5	Dhokey Apurva	Turbo Machines	89

FOURTH YEAR

SR.NO	STUDENT NAME	SUBJECT NAME	MARKS
1	Patki Akshata	Refrigeration and Air Conditioning	71
2	Adhav Rajli	CAD/CAM and Automation	90
3	Datar Prajakta	Dynamics of Machinery	82
4	Bhopatkar Radhika	Energy Audit and Management	89
5	Gawade Chaitrali	Advanced Manufacturing Processes	89
6	Gariya Diksha	Operation Research	91

SUBJECT TOPPER

SEMESTER II

SECOND YEAR

SR.NO	STUDENT NAME	SUBJECT NAME	MARKS
1	Rane Suhasinee	Engineering Mathematics-III	95
2	Patil Sneha	Strength of Materials	97
3	Patil Sneha	Fluid Mechanics	86
4	Mane Shital	Manufacturing Process-II	69
5	Agarwal Rutvi	Rigid Body Dynamics	72

THIRD YEAR

SR.NO	STUDENT NAME	SUBJECT NAME	MARKS
1	Bhawar Snehal	Design of Machine Elements-II	92
2	Dhokey Apurva	Numerical Methods & Optimization	90
3	Bhawar Snehal	Refrigeration & Air Conditioning	83
4	Gutte Shridevi	Mechatronics	84
5	Bhojane Megha	Manufacturing Process-II	80

FOURTH YEAR

SR.NO	STUDENT NAME	SUBJECT NAME	MARKS
1	Kulkarni Rasika	Power Plant Engineering	78
2	Salvi Sanketa	Mechanical System Design	85
3	Bharati Avantika	Industrial Engineering	85
4	Bhandale Pranita	Design of Pumps, Blowers & Compressors	79
5	Patki Akshata	Finite Element Analysis	80

PLACEMENTS 2018-19

NAME OF THE COMPANY	NAME OF THE STUDENT	SALARY OFFERED (LPA)
GE	Siddhi Bandiwadekar	10.13
PwC	Shreya Jahirabadkar	8.41
Michelin	Shweta Jadhav	8
Hero Motocorp	Ankita Tyagi	7
	Ashwathi Rajeev	
	Chaitrali Bhoi	
	Tanvi Joshi	
	Tamanna Pattharwala	
Philips	Shraddha Pawar	7
Nestle	Namita Gaonkar	6.6
	Payal Kadam	
Eaton	Megha Bhojane	6.25
	Ankita Daga	
	Apurva Dhoke	
	Shweta Gite	
Forbes Marshall	Sayali Mahajan	6.2
Aditya Birla Group	Prajakta Bachhav	6
	Nikita Gayake	
	Shridevi Gutte	
Tata Motors	Ankita Jadhav	6
	Abhinanda Jalota	
	Aditi Korabu	
	Trupti Wagh	
Parker Hannifin	Kasturi Gosavi	5.25
	Sneha Narnaware	
Technip	Mayuri Shinde	5.16
Cummins India	Shubhada Desai	5
	Vrushali Mulay	
	Nilofar Pathan	
	Tejashri Patil	
	Aishwarya Ponkshe	
	Purva Rajadnya	
	Avanti Unde	
Abha Gejji		

Tata Projects	Amruta Kamble	4.5
TE Connectivity	Preshita Mandekar	4.5
	Rakhi Pal	
	Priya Verma	
Airproducts	Snehal Bhawar	4
	Janhavi Gaikwad	
	Ankita Nandgaonkar	
	Komal Salgar	
Lear Corporation	Dnyaneshwari Daphal	4
	Rajashree Nikam	
	Pradnya Bankar	
	Rujula Kodak	
Faurecia	Aishwarya Kadam	4
	Mamta Rajguru	3.5
	Neha Kabra	
ZF India	Sakshee Deore	3.5
	Ranjana Desai	
	Sonali Mali	
Yazaki	Priyanka Patil	3
JCB	Priyanka Avhale	2.65
	Pradnya Bankar	
	Komal Ghorpade	
	Priya Khare	
	Shivanjali Jadhav	
Mercedes Benz R&D Institute, India	Shwetali Bhandari	Yet to be Declared
	Snehal Dhokle	
	Madhura Kunte	
	Aboli Lakhe	
	Purna Meher	
	Anushka Mookherjee	
	Nikita Rane	
	Shruti Shukla	
	Pooja Tambolkar	

INTERNSHIPS 2019

NAME OF THE COMPANY	NAME OF THE STUDENT	INTERNSHIP DURATION
Siemens	Sneha Patil	3 months
	Dhanashree Patil	
	Suhasee Rane	
	Shital Mane	
The Boeing Company	Prajakta Gosavi	3 months
	Pallavi Deshmukh	
	Rutvi Agrawal	
Eaton Corporation	Shreya Kulkarni	2 months
	Poonam Pingle	
	Ojal Jawale	
	Riya Wangikar	
	Samiksha Hingalaje	
	Manasi Shete	
Mercedes Benz	Nayan Parabat	Yet to Confirm
	Kshitija Kulkarni	
	Rutuja Waskar	
	Anuja Sangwai	
	Tejal Gujrathi	
Cummins India	Bhagyashri Deshmane	Yet to Confirm
	Nisha Kolekar	
	Renuka Kulkarni	2 months
Kirloskar Pneumatics Co. Ltd.	Neha Shastri	3 months
	Sayali Mulatkar	
Kirloskar Oil Engines	Sharayu Borse	3 months
Essem Techno Penz , Nashik	Vaishnavi Bhadane	3 months
Forbes Marshall	Akanksha Deshpande	3 months
JSW (Salav) , Alibaug	Vaishnavi Shinde	2 months
Tetra Pak India Pvt. Ltd., Chakan	Mouni Pendharkar	3 months
SAIL-Bhilai Steel Plant, Chhattisgarh	Shivani Pawar	2 months

Ohio State University, USA	Aditi Gaikwad	2 months
	Priyanka Chougule	
Tata Motors	Ketki Date	3 months
	Poorva Joshi	
National Centre of Radio Astronomy	Aarti Nandre	2 months
T.E. Connectivity	Rhea Patranabis	3 months
Endurance, Aurangabad	Apurva Zingade	2 months
Horiba , Chakan	Kanchan Avhad	3 months
IIT Bombay	Pratiksha Shivarkar	2 months
SVI Carbon Pvt. Ltd., Nashik	Manisha Vasatkar	2 months
	Harshada Bagul	
Bharat Forge	Rutuja Kadam	2 months
	Radhika Dharmadhikari	
Knorr Bremse , Pune	Nilam Londhe	3 months
Defence Research & Development Organisation	Manisha Chaudhari	2 months
Grind Master, Aurangabad	Rutuja Badve	2 months
Sharayu Engineering, Katraj, Pune	Vinaya Ingalgikar	2 months
Sanmay Engineers Pvt. Ltd., Pune	Siddhi Bagde	3 months
C Tech Engineers, Narhe	Shivani Rajopadhye	3 months
	Aishwarya Landekar	
Shirodkar Preci Comp Unit 1, Bhosari	Vandana Sakhare	2 months
GGs Meksell	Shradhha Chavan	3 months
Sandwick, Dapodi	Sayali Shinde	2 months
Thermax	Papiya Bhattacharya	2 months
	Mansi Joshi	
Godrej	Madhavi Swamy	2 months

ACADEMIC YEAR 2018-2019

GUEST LECTURE SERIES

SR. NO.	NAME OF SUBJECT	CLASS	INTERNAL FACULTY	EXPERT FACULTY	INDUSTRY / INSTITUTE NAME
1	Hydraulics & Pneumatics	BE	Dr. A.K.Bewoor	Mr. Nitin Kardekar	HydroCAD Consultant and Designer Pvt.Ltd.
2	Dynamics of Machinery	B E	Prof. N.R.Patil	Mr. Mahesh Patwardhan	ARAI Pune
3	Research Design Methodology and System Engineering	M.Tech.	Dr. A.K.Bewoor	Mr. Ajay Joshi	Cummins India Limited
4	Research Design Methodology and System Engineering	M.Tech.	Dr. A.K.Bewoor	Dr. Ganesh Dongare	Vishwakarma Institute of Technology, Pune
5	Hydraulics & Pneumatics	BE	Dr. A.K.Bewoor	Mr. Prasanna Umarani	Slim line HydrotekPvt.Ltd.
6	Energy Audit and Management	BE	Prof. S.A.Kedar	Mr. A Y Mehendale	Enrich Consultant Pvt.Ltd.
7	Energy Audit and Management	BE	Prof. S.A.Kedar	Mr. Sanjay Kulkarni	Ecosun Energy Company pvt.ltd.
8	CAD-CAM Automation	BE	Prof. Y.S.Munde	Mr. Dattatray Sable	John Deere India Pvt.Ltd.
9	Manufacturing Process	S Y B.Tech.	Prof. H.M. Shinde	Mr. Abhijeet Bhagwat	Cummins India Limited

SPORTS PARTICIPATION OF STUDENTS

S.NO.	NAME	YEAR	SPORT	LEVEL	AWARDS
1	Anushka Mookherjee	BE	Handball	COEP Zest	Gold medal
			Basketball	Inter-Collegiate	Silver medal
				MIT Summit	Gold medal
				COEP Zest	Gold medal
				AIT Pace	Gold medal
				PICT Elevate	Gold medal
				Damini	Gold medal
				Pentacle	Gold medal
2	Ankita Jadhav	BE	Kho-Kho	Inter-Collegiate	Participation
				COEP Zest	Participation
				Damini	Participation
			Tug of War	Damini	Bronze medal
3	Sridevi Gutte	BE	Kabaddi	Inter-Collegiate	Participation
				COEP Zest	Participation
				Damini	Silver medal
			Tug of War	Damini	Bronze medal

4	Papiya Bhattacharya	TY	Basketball	Inter-Collegiate	Silver medal
				MIT Summit	Gold medal
				COEP Zest	Gold medal

				AIT Pace	Gold medal
				PICT Elevate	Gold medal
				Damini	Gold medal
				Pentacle	Gold medal
5	Siddhi Bagde	TY	Football	Inter-Collegiate	Gold medal
				MIT Summit	Participation
				COEP Zest	Silver medal
				AIT Pace	Gold medal
				FLAME Kurukshetra	Silver medal
				Pentacle	Silver medal
6	Pratiksha Shivarkar	TY	Handball	COEP Zest	Gold medal

7	Samiksha Deshmukh	SY	Athletics (Relay)	COEP Zest	Participation
				Damini	Participation
8	Kajal Datir	SY	Athletics (Relay)	COEP Zest	Participation
				Damini	Participation
9	Radhika Zanwar	SY	Football	Inter-Collegiate	Gold medal
				MIT Summit	Participation
				COEP Zest	Silver medal
				FLAME Kurukshetra	Silver medal
				AIT Pace	Gold medal
				Pentacle	Silver medal

SAE BAJA: TEAM MEMBERS (TEAM ZENITH 5.0)

SR. NO.	NAME	CLASS	RESPONSIBILITY
1	Komal Salgar	B.E. Mech.	Captain, Transmission
2	Preshita Mandekar	B.E. Mech.	Brakes
3	Shwetali Bhandari	B.E. Mech.	Steering
4	Rutuja Waskar	T.Y. Mech.	Vice-Captain, Suspension
5	Anuja Sangwai	T.Y. Mech.	Suspension
6	Aditi Gaikwad	T.Y. Mech.	Suspension, Sponsorship
7	Pallavi Deshmukh	T.Y. Mech.	Brakes
8	Poorva Joshi	T.Y. Mech.	Brakes
9	Hemangi Patil	T.Y. Mech.	Transmission
10	Shraddha Chavan	T.Y. Mech.	Transmission
11	Shivani Rajopadhye	T.Y. Mech.	Driver, Rollcage
12	Prajakta Gosavi	T.Y. Mech.	Rollcage
13	Bhagyashri Deshmane	T.Y. Mech.	Suspension
14	Riya Wangikar	T.Y. Mech.	Manufacturing, Steering
15	Priyanka Chougule	T.Y. Mech.	Manufacturing, Brakes

16	Anuja Apte	T.Y. Mech.	Steering
17	Tanvi Apte	S.Y. Mech.	Manufacturing, Rollcage
18	Samruddhi Jadhav	S.Y. Mech.	Co-Driver, Sponsorship, Brakes
19	Mayuri Ratnaparkhi	S.Y. Mech.	Treasurer, Transmission
20	Shrutika Pujari	S.Y. Mech.	Manufacturing, Rollcage
21	Madhura Indulkar	S.Y. ENTC	Steering
22	Chanchal Choudhary	S.Y. Instru.	Manufacturing, Electrical
23	Disha Bhagwat	S.Y. Mech.	Manufacturing, Sponsorship, Electrical
24	Tanvi Vaidya	S.Y. Mech.	Manufacturing, Suspension
25	Aishwarya Shewale	S.Y. Mech.	Off-Team, Aesthetics
26	Tanishka Damle	F.Y. Mech.	Off-Team, Aesthetics
27	Siddhi Kinage	F.Y. Mech.	Off-Team, Aesthetics
28	Unnati Chambhare	F.Y. Mech.	Off-Team, Aesthetics
29	Dr. Ajit Bhosale		Faculty Advisor
30	Prof. Harish Shinde		Faculty Advisor
31	Dr. Gautam S. Chandekar		Faculty Advisor

FACULTY ACHIEVEMENTS

PUBLICATIONS & JOURNALS

SR. NO.	AUTHOR [FACULTY] NAME	PAPER TITLE	NAME OF JOURNAL	VOLUME, ISSUE NO., (MONTH/YR. & PAGE NO.)
1	Prof. P.S.Chaware, C.M.Sewatkar	Effects of tangential and radial velocity on fluid flow and heat transfer for flow through a pipe with twisted tape insert—laminar flow	Sādhanā	43 (9), 150 July 2018 1-15
2	Dr. A.K.Bewoor, Sham Kulkarni	Analysis of Distributed Defect on Outer Ring of Ball Bearing Under Radial Load: A Theoretical and Experimental Approach	Journal of Engineering Science and Technology	13(11) Nov 2018 3764 – 3780
3	Prof. Y.S.Munde, Dr. R.B.Ingle, I Siva	Vibration Damping and Acoustic Characteristics of Sisal Fiber Reinforced Polypropylene Composite	Noise & Vibration Worldwide	50(1) Nov 2018 13-21
4	Dr. R.B.Ingle, Mahesh V Kulkarni	Validation of Set Up for Experimental Analysis of Reactive Muffler for the Determination of Transmission Loss: Part 1	Noise & Vibration Worldwide	July, 2018 49 (6) 237-240
5	Dr. R.B.Ingle, Mahesh V Kulkarni	Attenuation Analysis and Acoustic Pressure Levels for Double Expansion Chamber Reactive Muffler: Part 2	Noise & Vibration Worldwide	July, 2018 49 (6) 241-245

FACULTY PARTICIPATION IN STTP/ FDP/ WORKSHOP

SR. NO.	NAME OF FACULTY	TITLE OF STTP / FDP / WORKSHOP/ SEMINAR/ EXPERT /TRAINER	DATE (FROM-TO)	ORGANISED BY/VENUE	DURATION	SPONSORED BY
1	Prof. N.R. Kolhalkar	Recent Trends in Welding and Joining Technology	26 th -30 th November, 2018	Dr. BATU, Lonere	1 Week	TEQIP-III
2	Prof. N.R. Kolhalkar	Optimization and Optimal Control: A Data Based Approach	3 rd -7 th December, 2018	C.O.E.P	1 Week	TEQIP-III
3	Prof. N.R. Kolhalkar	ENTREPRENEURSHIP	10 th -21 st December, 2018	Science and Technology Park, S.P.P.U	2 Weeks	NSTEDB, Dept. of Science & Technology, Govt. of India
4	Prof. H.M. Shinde	Recent Trends in Welding and Joining Technology	26 th -30 th November, 2018	Dr. BATU, Lonere	1 Week	TEQIP-III
5	Prof. H.M. Shinde	Optimization and Optimal Control: A Data Based Approach	3 rd -7 th December, 2018	C.O.E.P	1 Week	TEQIP-III
6	Dr. Deepak Watvisave	Awariness About DRDO Research Projects and Opportunities Under ARMREB	25 th January, 2019	C.O.E.P	1 Day	DRDO
7	Prof. M.A. Vahadne	Introduction to Operations Research	Aug-Sept 2018	IIT Madras	8 Weeks Course	One Week FDP
8	Prof. M.A. Vahadne	Introduction to Research	Aug-Sept 2018	IIT Madras	8 Weeks Course	One Week FDP

STUDENT ACHIEVEMENTS

SR. NO.	NAME OF THE STUDENT	CLASS	AWARDS / SCHOLARSHIPS
1	Anuja Arthekar	B.E. 2018	Sudha Murthy Award
2	Purva Rajadnya	B.E.	Best Outgoing Student
3	Tamanna Pattharwala	B.E.	Pratibha – The EATON Excellence Prize
4	Anushka Mookherjee	B.E.	Mercedes in Mech - MBRDI, India; Kedar Tumne Innovation Award
5	Snehal Dhokle	B.E.	Mercedes in Mech - MBRDI, India; Kedar Tumne Innovation Award
6	Shruti Shukla	B.E.	Mercedes in Mech - MBRDI, India
7	Prerna Meher	B.E.	Mercedes in Mech - MBRDI, India
8	Aboli Lakhe	B.E.	Mercedes in Mech - MBRDI, India
9	Shwetal Bhandari	B.E.	Mercedes in Mech - MBRDI, India
10	Nikita Rane	B.E.	Mercedes in Mech - MBRDI, India
11	Pooja Tambolkar	B.E.	Mercedes in Mech - MBRDI, India
12	Madhura Kunte	B.E.	Mercedes in Mech - MBRDI, India
13	Shreya Jahirabadkar	B.E.	Kedar Tumne Innovation Award
14	Abha Gejji	B.E.	Kedar Tumne Innovation Award
15	Rujula Kodak	B.E.	Kedar Tumne Innovation Award
16	Poonam Pingle	T.Y.	Lila Poonawalla Foundation Under Graduate Scholarship

17	Manisha Chaudhari	T.Y.	Cummins Scholarship Award; Katalyst India
18	Rutuja Waskar	T.Y.	Mercedes in Mech - MBRDI, India
19	Nayan Parabat	T.Y.	Mercedes in Mech - MBRDI, India
20	Tejal Gujarathi	T.Y.	Mercedes in Mech - MBRDI, India
21	Kshitija Kulkarni	T.Y.	Mercedes in Mech - MBRDI, India
22	Anuja Sangwai	T.Y.	Mercedes in Mech - MBRDI, India
23	Devika Kulkarni	S.Y.	Avery Dennison InvEnt Scholarship Award; WeTech Goldman Sachs Mentorship; Mercedes in Mech-MBRDI, India Award;
24	Shraddha Kale	S.Y.	Tata Samartha Scholarship; Mercedes in Mech-MBRDI, India
25	Shweta More	S.Y.	Tata Samartha Scholarship; Mercedes in Mech-MBRDI, India
26	Priyanka Patil	S.Y.	Lila Poonawala Foundation Scholarship; Katalyst
27	Aishwarya Shewale	S.Y.	Lila Poonawala Foundation Scholarship
28	Suhasinee Rane	S.Y.	Pratibha – The EATON Excellence Prize
29	Monali Bendale	S.Y.	Lila Poonawala Foundation Scholarship; Cummins India; Katalyst
30	Sayali Mane	S.Y.	Lila Poonawala Foundation Scholarship
31	Saloni Gosavi	S.Y.	Mercedes in Mech-MBRDI, India
32	Madhura Sahasrabuddhe	S.Y.	Mercedes in Mech-MBRDI, India
33	Madhura Mahagaonkar	S.Y.	Mercedes in Mech-MBRDI, India
34	Neeraja Bhide	S.Y.	Mercedes in Mech-MBRDI, India

35	Tanvi Kuray	S.Y.	Mercedes in Mech-MBRDI, India
36	Anisha Kulkarni	S.Y.	Mercedes in Mech-MBRDI, India
37	Pranjali Joshi	S.Y.	Mercedes in Mech-MBRDI, India
38	Rucha Patil	S.Y.	Mercedes in Mech-MBRDI, India
39	Arya Vyavahare	S.Y.	Mercedes in Mech-MBRDI, India
40	Sanyami Kothari	S.Y.	Mercedes in Mech-MBRDI, India
41	Snehal Bandekar	S.Y.	Mercedes in Mech-MBRDI, India

- **Sudha Murthy Award :**
Awarded to the student passing out with the highest aggregate in the department.
- **Best Outgoing Student Award :**
Awarded to the student who stands out due to their academic and overall excellence.
- **Pratibha, The Eaton Excellence Prize :**
Awarded to exceptional women engineers across leading institutions with academic excellence as well as co-curricular achievements.
- **Mercedes in Mech - MBRDI, India :**
Awarded to promising young women in engineering, as a part of a scholarship programme including mentorship, and internship opportunities.
- **Kedar Tumne Innovation Award :**
Awarded to student groups for project with technological Innovation and envisioned social impact, worth Rs. 10,000 per group.
- **Lila Poonawalla Foundation Under Graduate Scholarship :**
Awarded to outstanding and financially deserving girls to pursue higher education. These scholarships are merit-cum-need based scholarships.
- **Cummins Scholarship Award :**
Open to all students from all branches. Aptitude tests and personal interviews are carried out for selection of 200 students from approximately 7500.

- **Katalyst :**
Awarded to budding women from low income backgrounds. The Scholarship is awarded by an NGO and involves training in technical and soft skills. Criteria include academic merit and performance in training sessions.
- **Avery Dennison InvEnt Scholarship Award :**
The Avery Dennison Foundation Spirit of Invention (InvEnt) Scholarship Program is designed to recognize and reward invention, innovation and excellence in high-achieving students studying in the fields of science, engineering and technology at selected higher education institutions in India.
- **WeTech Goldman Sachs Mentorship Award :**
Awarded to women engineers with leadership potential. It comprises of a Scholarship along with virtual mentorship. It has been instituted by Institute of International Education (IIE) and Goldman Sachs.
- **Tata Samartha Scholarship :**
Open to all branches of only first year engineering degree course. Selection is based on 12th board marks, CET score and performance in interview. It comprises of scholarship along with interaction with industry professionals.

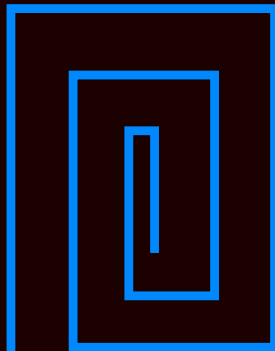
MECHANICAL ENGG. STUDENTS

IN STUDENT PANEL

SR NO.	NAME OF STUDENT	YEAR	POST HELD
1.	Shridevi Gutte	BE	Sports Secretary
2.	Ketki Date	TY	Branch Representative
3.	Aishwarya Landekar	TY	Assistant Cultural Secretary
4.	Vandana Sakhare	TY	Assistant Technical Secretary
5.	Poonam Pingale	TY	Training & Placement cell Representative

INNOVATION 2019

CYCLOTHON AND FASTER FIXER



Event coordinators and volunteers



ASME CUMMINS STUDENT SECTION



Guest Lecture by
Wing Commander
Anupama Monga



Guest lecture by
Naresh Gandhi(KOEL)



Industrial visit to
Tata plant,Pimpri



Industrial visit to
Cummins plant,Phaltan



MECHATHON Competition



ASME Committee 2018-19



NATIONAL SERVICE SCHEME



NSS Camp



NSS Camp



NSS Camp



Blood Donation Camp



Tree Plantation Programme



Women's Day Poster Inauguration

INDUSTRIAL VISITS



1



2

1-S.Y.B.TECH SOMESHWARSUGAR FACTORY

2-T.Y.B.TECH ADLABS IMAGICA

3-BE MAPRO GARDEN



3

COMPOSITE MATERIAL WORKSHOP



GANDHAAR 2019



INAUGURATION : GANDHAAR BEGINS !!!



S.Y.B.TECH



BE

TRASHION



S.Y.B.TECH



T.Y.B.TECH

SINGING COMPETITION



DEPARTMENT SHOW



BE FASHION SHOW



**BE STUDENTS AT INTRA
DANCE COMPETITION**

BEST DEPARTMENT 2019

