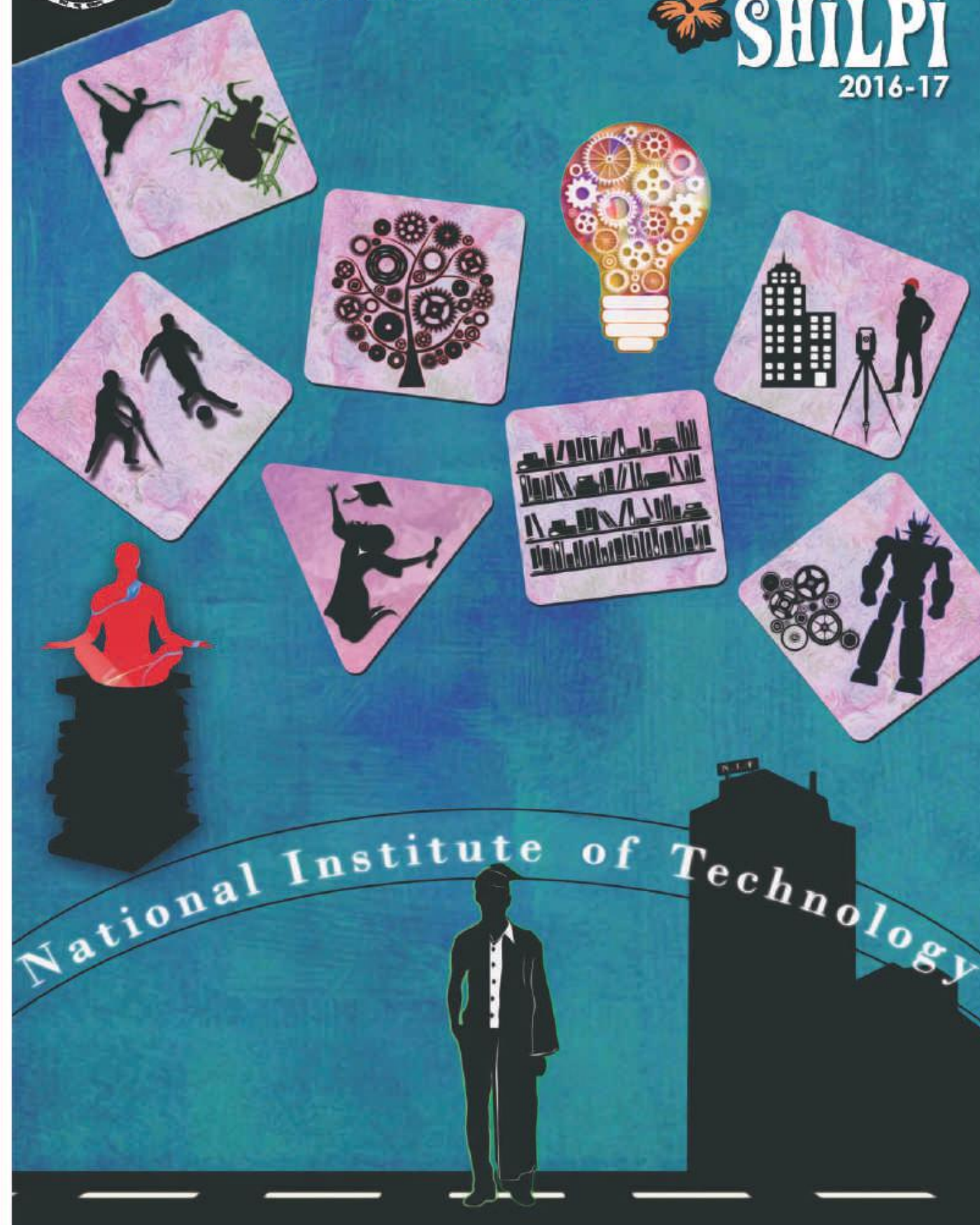




SHILPI
2016-17



NIT Art Expo

 **SHILPI**
2016-17



NATIONAL INSTITUTE OF TECHNOLOGY, RAIPUR





Dedication

This issue of SHILPI is dedicated to the kids of Gorakhpur, UP, who lost their battle against Acute Encephalitis Syndrome (AES), who took their last breaths 'Short of Breaths'.

Quite a hustle, must have been at heaven's door, when the troop of tiny little angels knocked ! May the Gods be with them and with those who had to bear the pain of losing a child.

Message from the Director



Magazines are the indispensable part of an institute which provides an aesthetic platform to the students as well as teachers to showcase their talents in their creative fronts. As mirror reflects the appearance of a person, the institute magazine reflects the talents of the students and teachers it houses.

In this context, "SHILPI" – The annual magazine of NIT Raipur plays the role of an ideal institute magazine. The institute is constantly striving in all round development of the students through its endless efforts, and "SHILPI" is one such endeavor, providing wide spectrum of literary and artistic talents of the students that culminate into the ambrosia of life and philosophy.

I am completely contented with the members' hard work and commitment and the only suggestion is to implement their innovative ideas to ameliorate the magazine every year.

In future, I wish to see the institute at the pinnacle of excellence accommodating the brilliant young engineers that would make recruitment strenuous for the companies to select students from a bunch of talented freshers. I wish the Literary Committee of the Institute all the success in their endeavors. My ultimate message to all the students is to work hard to achieve their goals, always be creative and innovative.

Director
NIT, Raipur

Editorial

Our world is constantly changing, societies evolving and with the influx of new events, information and ideas, our lives are redefined every day. We are expected to drive forward in an uncertain and complex environment.

In this world, that is being broken and built at the same time, our dreams are the foundation.

"Dream is not what you see in sleep, dream is which does not let you sleep"- Dr. Abdul Kalam One's dream is also constantly evolving, rising & falling, changing course but slowly moving towards the destination. These dreams make us who we are and what we are proud of Team Literati strives to provide a page for all the dreams of NIT Raipur, dreams of all colours and sizes, within the two covers of SHILPI.

We welcome you to the confluence of friendship, ideas, hard work and dreams we found in this campus.

So sit back, enjoy and dream on!

Team Shilpi

Faculty Support



Dr. Mithilesh Atulkar
Chairperson



Dr. Manoj Kumar Chopkar
Member



Dr. Jaya Dwivedi
Member



Dr. Pankaj Dewangan
Member



Dr. Saiket Majumdar
Member

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The 7th Convocation

Graduation is a special time of the year when students trade in their books for robes and caps and prepare themselves for a world beyond the walls of a college. The day is awaited by graduates with bated breath, the day they can walk out the gates of this college with a degree in hand and smiles on their faces. The convocation day is indeed a euphoric day as graduates come back to college to collect the parchment that sets them free to aim for and achieve a new zenith.



It is a day which officially marks the end of your academic life and the beginning of your professional life. A day where every face, be it the face of a student or a parent or a teacher, beams with happiness and delight. Proud parents cheer for their children with tears of joy in their eyes and the faculty feels delighted on having catered to the academic and intellectual needs of another set of students, thus preparing them for a life ahead.

The seventh convocation conducted by National Institute of Technology, Raipur was marked to confer the pass

outs of the academic year 2015-2016 of Graduate degree/Post Graduate degree programs with a degree and PhD scholars with their doctorate and to celebrate their moment of joy with their family and friends.

The Chief Guest for the seventh convocation of NIT, Raipur was Dr. Vijay Kumar Saraswat, former Director General of DRDO and Chief Scientific Advisor to the Indian Minister of Defence accompanied by Dr. Sudarshan Tiwari, Director, National Institute of Technology, Raipur. Thursday, 09/02/2017 Venue: National Institute of Technology, Raipur, Chhattisgarh.

Dr. Vijay Kumar Saraswat- One of the India's most gifted scientist and an accomplished researcher, with more than four decades of experience of defence research. He has been awarded with numerous accolades during his entire career, namely: Padmabhushan(2013) , Padmashree(1998). In his address, he said, "My dear young friends, you may choose any of these dreams but success in any of them is like an iceberg. People see only the tip of the iceberg but hidden underneath in water are the building blocks of the success via hard work, habits, sacrifice, massive action, failures, persistence, goals, focus and risks". Highlighting the idea that success remains elusive unless we learn how to climb the ladder of these building blocks.

In his welcome address, Director of NIT Raipur, Dr. Sudarshan Tiwari said that "In order to be successful in life, you will have to align your education with your goals and pursue the same with pure dedication and perseverance. There shall be victories, there will be defeats, and you need to move on learning valuable lessons."

A total of 1062 degrees were conferred including 802 Bachelor of Technology, 65 Bachelor of Architecture, 80 Master in Computer Applications, 93 Master in Technology, and 22 PhD students. A total of 44 gold and silver medals were awarded to students with excellent academic performance.

The Seventh convocation ceremony which took place in NIT Raipur campus covered the institution in a blanket of joy and nostalgia. This day will be a lasting memory of life. This was the day when the graduates were the subject of pride in the eyes of their parents, their tutors and peers, having successfully completed their formal education and stepping into the real world.



Toppers Talk



GATE-2017

PRATYUSH MISHRA

Mechanical, GATE AIR- 75, M-tech IIT Delhi

- When did you decide that you want to attempt GATE exam as serious career option?
After 6th semester exams.
- How did you choose GATE over other career option such as CAT, private sector jobs etc.?
I wanted to do something in my own technical field in which I was devoting 4 years of my life. Hence I decided to prepare for ESE and gave GATE as a backup option.
For the same reason, I didn't sit for placements as I wanted to focus on ESE. However, I now consider my approach as risky as both GATE and ESE require some luck as well due to cut throat competition.
- Are you aiming at higher education or job in public sector?
I am planning to go for higher education.
- When did you start your preparations?
I started my preparation at the beginning of 7th semester. However, serious preparation began only after July.
- What was your strategy and how did you stick to it?
Firstly, I analyzed previous years question papers and found that crystal clear concepts and their application to solving numerical problems was key to excelling in this exam. So I focused on the basics and then I solved all previous year questions. I also made a formula copy so that I saved my time in exam while solving standard questions and utilise that to solve the more challenging ones. I also practiced virtual calculator using an app on my phone. Finally, mock tests formed the basis of my last stage of preparation during the last month I gave as many of them as possible and also reviewed them to correct my mistakes.
Self confidence and fear (paradoxically) were the two factors that led me to stick to my strategy.
- How did you maintain balance between GATE preparation and semester studies?
I cut down on watching TV series and extra - curricular activities to have enough time for my GATE preparation.
- What was the role of coaching institutes in your success?
I am a believer of self-study. Coaching should be used to clear doubts and to have a competitive environment (mock tests).
- Did you anticipate your result, while preparing for the exam?
I did score good in mock tests. But AIR 73 was a surprise to me as there is always some luck factor involved.
- What all material did you use during preparation phase?
College course books to build concepts and coaching notes to supplement it.
- To which PSU's/institutes have you applied?
I was selected for interview for all the PSUs I applied for. However, I didn't attend any interviews since PSUs was not my goal. I have joined M.Tech. at IIT Delhi.

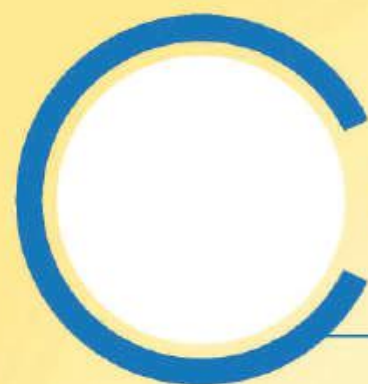


GATE-2017

DINKAR TIWARI

MINING AIR-97

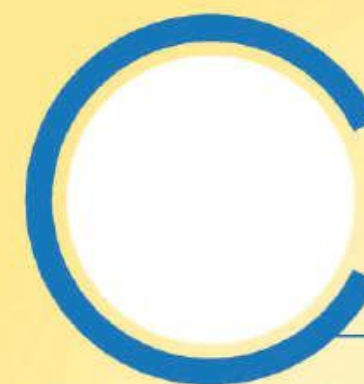
- When did you decide that you want to attempt GATE exam as serious career option?
Mining branch students have very limited scope after GATE. I wanted to have a variety of options after my graduation. So I started preparing for GATE during my semester break of 7th Sem.
- How did you choose GATE over other career option such as CAT, private sector jobs etc.?
I actually started preparing for Campus interviews. This helped me a lot for preparation of GATE. When I got my first Placement at Heidelberg cement, I wanted to explore more options for my career. That turned out to be my biggest motivation for preparation of GATE.
- Are you aiming at higher education or job in public sector?
I have got placed at Coal India LTD. biggest coal producing company in the world. I have further plans to pursue an integrated PhD degree program from a prominent institute around the world.
- When did you start your preparations?
I used to make notes of all the subjects during end semester exams. So that actually helped me to get a robust material for study. So I would say I never started.. It eventually went on with my regular semester preparation.
- What was your strategy and how did you stick to it?
First I have completed all the untouched parts of syllabus and took help from my experienced faculties. Then I tried to solve more and more questions available at different sites. Then I took help from my notes which I have prepared earlier in all semester. Then in last fifteen days I revised all of it and tried to bind practice within a time frame of 3hrs. I would suggest to make notes and try to take help from your faculties and seniors.
- What was the role of coaching institutes in your success?
I never took any coaching for my GATE preparation. My college faculties and notes were more than sufficient.
- Did you anticipate your result, while preparing for the exam?
Haha, Not even a clue. Even I just wanted to give my best. Result never came into my mind.
- What all material did you use during preparation phase?
As I mentioned earlier I used my class notes, A K Gorai for my gate practice. Previous years papers and relevant subject books.
- To which PSU's/institutes have you applied?
I already got placed at the best company which a mining can get. i.e. CIL



GATE-2017

HITESH BHARGAV
Mining Air-12

1. When did you decide that you want to attempt GATE exam as serious career option?
A. During 7th semester.
2. How did you choose GATE over other career option such as CAT < private sector jobs etc.?
A. I wanted to work in core sector so CAT was never an option. As PSUs (recruits through GATE) offers better work life balance.
3. Are you aiming at higher education or job in public sector?
A. Job in Public Sector.
4. When did you start your preparations?
A. From 7th semester.
5. What was your strategy and how did you stick to it?
A. I use to study various topics mentioned in GATE syllabus from whatever sources available and then solve previous year questions related to that topic as well as any new questions available in reference books.
6. How did you maintain balance between GATE preparation and semester studies?
A. For mining discipline, maintaining balance between GATE exam and semester studies is not much of an issue. 2-3 hours per week for GATE is more than sufficient (for mining Discipline).
7. What was the role of coaching institutes in your success?
A. I was not enrolled in any coaching institute.
8. Did you anticipate your result, while preparing for the exam?
A. During studies I was thinking of getting a rank below 50.
9. What all material did you use during preparation phase?
A. I used my class notes (from 2nd to 4th year), solved last 10 years questions and other books (A.K.Gorai) for GATE for mining discipline.
10. To which PSU's/institutes have you applied?
A. I applied to only PSU recruiting through GATE 2017 for mining discipline-NLC India Ltd.
11. Any suggestion to the readers?
A. s far as GATE is concerned keep your fundamentals strong. Solve as many as problems (of different types) as you can, analyze your mistakes and try to rectify them before exam. All the best.



GATE-2017

YASH SHUKLA

1. When did you decide that you want to attempt GATE exam as serious career option? What was your GATE score?
**I decided to attempt GATE during the third year but started preparing seriously for the exam at the end of third year.
Gate score-945, Marks-74.36, AIR -3**
2. How did you choose GATE over other career option such as CAT, private sector jobs etc.?
I always wanted to work in a PSU that is why I appeared for Gate exam.
3. Are you aiming at higher education or job in public sector?
I am currently working in Indian Oil Corporation Limited.
4. When did you start your preparations?
At the end of third year.
5. What was your strategy and how did you stick to it?
I gave special attention to subjects during semester which were common in Gate syllabus. This helped me build the concepts and I solved numericals from previous years' question papers during the last two months before the exam.
6. How did you maintain balance between GATE preparation and semester studies?
The syllabus for gate exam is similar to that for semester examination.
7. What was the role of coaching institutes in your success?
There are no coaching institutes for Gate Metallurgy in Raipur.
8. Did you anticipate your result, while preparing for the exam?
No.
9. What all material did you use during preparation phase?
I read the standard books for every subject and solved numericals from previous years' question papers.
10. To which PSU's/institutes have you applied?
I had applied for BARC and IOCL
11. How did you manage with the changing pattern of metallurgy in past years?
I had solved the question papers for gate exam from 1990-2016. The questions in Gate 2017 were on similar lines as the earlier papers.
12. Last month suggestions for gate aspirants?
The pattern for Gate exam has changed since 2016 and more number of numericals and concept based questions have started coming in the exam. So stick to the basics and solve as many numericals as possible

**CAT
2016**



Toppers



CHANDRA PRAKASH RATHI
Mechanical - 99.72



ADITYA M SHARMA
Metallurgy - 99.84

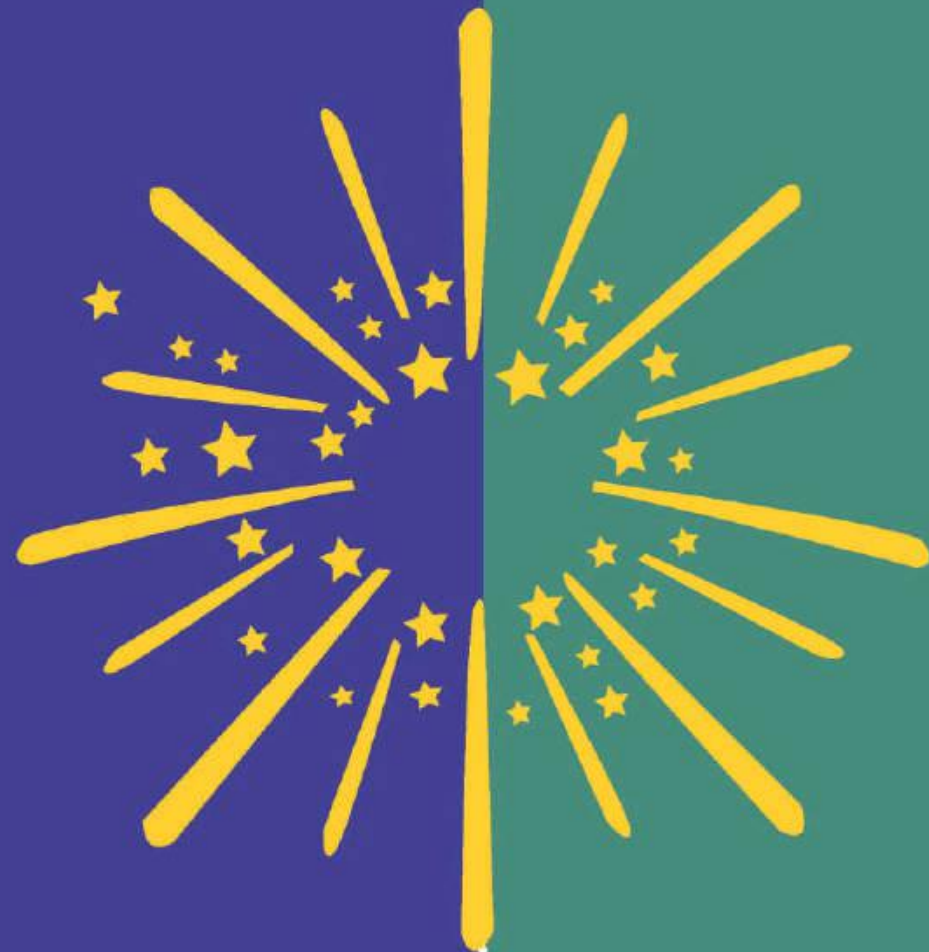


NILAY PANDEY
Mechanical - 96.43



SHRUTI NAIR
CSE, GRE-330

1. When did you decide that you want to attempt GRE exam as serious career option?
I was always sure to go for Masters since my 1st year. Towards the end of 2nd year, I seriously started grooming my profile in the right direction.
2. How did you choose GRE over other career option such as GATE, CAT < private sector jobs etc. ?
I always wanted a head start for my career in a big firm and I knew pursuing Masters from a world renowned university would boost up my chance multiple folds towards achieving my goal. I wanted to be in technical side and MBA(CAT) was not my cup of tea. Regarding GATE, both my parents were govt servants and I realized quite early that govt job ensures job security but no career growth. I preferred the later.
3. Are you aiming for job or PhD after persuing MS ?
I initially came to US with the hope of pursuing PhD. After studying for a semester, I understood PhD requires so much more dedication for which I felt I was not ready. Right now, I will start my internship, pursue a job and then decide later if I would like to go back to academia.
4. When did you start your preparations?
I started my preparations seriously from May 2016. My exam was scheduled on Sept 2017.
5. What was your strategy and how did you stick to it?
GRE is an adaptive test. Quant portions are relatively easy for Indian students. But be sure of not making any mistake. Verbal requires more attention. I started reading more and more news articles(a habit which continued later for better) and wrote all the vocabulary I encountered during the course in my notepad. Practicing from each and every book available is crucial. RC should be given extra attention.
6. How did you maintain balance between GRE preparation and semester studies?
Com'on everyone knows that. No one really bothers for semester studies especially in their 7th semester.
7. What was the role of coaching institutes in your success?
I didn't do any coaching. Coaching shows you don't have enough self motivation. A quality which is very crucial for your success in grad studies especially if you are a Software engineer. But yes do it, if you feel it's necessary.
8. Did you anticipate your result, while preparing for the exam?
I was quite sure of my scores. As I already mentioned GRE is an adaptive test. You just cannot expect to jump from 310 to 330 in one month prep. It's more like an evaluation of your already existing knowledge base. Don't give too much attention. Because there are other things u need to focus at.
9. What all material did you use during preparation phase?
ETS GRE general test, Manhattan prep, Magoosh, Kaplan. Few more which I don't remember right now.
10. To which institutes had you applied?
Stanford University (:p), UIUC, USC, Stony Brook University, UCSD, UWM, ASU.
11. Any suggestion to the readers?
GRE is just a part of the application process. There is so much more. Focus on publishing papers, do foreign internships, get good LORs, good GPA and you would get into a good university.



ENGLISH CORNER



Beyond the Boundaries of Gender

We live in a patriarchal society where girls are expected to carry a 'sanskaar' demeanor and the ones who decide to flout such norms are considered to stigmatize the entire community. Who has given them (the so called 'controllers') the right to preside over the other section of the society? Besides, why should the latter be discriminated at the hands of the former?

These questions seem to beleague our society from time immemorial and still people tend to be oblivious towards them.

Even the top 2% population of our country involving the educated and affluent businessmen, lawmakers and politicians are no less in widening the gap between the genders.

Huge business tycoons blessed with a lot of fortune have a belief that their legacy will be passed on to none but men. Girls in these households hardly have a say in the financial matters, supervising the company is a rather distant dream. If such "well read" individuals have a stereotypical notion on the role of females in our society, we can never imagine what the entire rustic population presumes.

Similarly, most of the office bearers and ministers comprise of men. A multitude of males in the political arena make it further difficult for a lady to rise above all odds and stand out in a sexist world. They

appear to foster women empowerment but in reality they are eager to pull any emerging woman down. This hypocrisy is reflected in the policies that they implement. Their decisions affect the mindset of crores of people. Hence, a false conception of prejudice against women is conveyed to the general public.

Although the circumstances have improved over time with women advancing towards the acme of excellence in a plethora of fields, a basic transition in the layman mentality is still awaited.

We need to completely brush off this idea of women living within the four walls. It is imperative that every girl grows up to be an educated and self-sufficient lady so that she isn't a liability on anyone. It is immensely difficult to intimidate and suppress a self-made woman. Change is a must, and change starts from you. I believe, with independence, a sense of authority is attributed to a person and hence, a potential to bring about a change in the perception of the entire human race.



SHREYA SHUKLA
 Metallurgical Engg.,
 Batch - 2014-18

Burning Desire Key to Success

RAJAT ANAND
 Biotechnology Engg.
 Batch - 2015-19

A major problem in today's competitive world is lack of focus and concentration among students. Basically focus is correlated with Desire. In order to focus on studies, one needs a burning desire and a strong reason to do something. Most importantly Desire plays a major role in our lives. It is simply a desire that keeps us moving whether one has a desire to attain good health, money, power, fame, respect etc. The power of burning desire is so huge, that it cannot be imagined. Along with goal setting, one needs a "Burning Desire" to accomplish it. Desire can simply be defined as a state of mind which persistently reminds us of our goals and urges us to take action. It is a longing for a definite purpose, which becomes an obsession. Desire should not be confused with hope. It is not the same as 'What you want' or 'What you wish'. As wishing cannot turn our dreams and illusions into the reality of life. Imagination of success would not yield anything, until it becomes the ultimate purpose of your life. It is not an idea that gives us temporary inspiration but a permanent feeling of urgency for a particular task. It is something which makes a goal or outcome compulsory and must for us. Desire increases our restlessness and empowers us to face hardships of life. It boosts our determination and passion towards our aims. It removes all the obstacles of our path, stopping us to succeed. When desire turns into obsession or madness then it is called a "Burning Desire". Such a burning desire is very essential for success. A burning desire dominates over the subconscious mind transcends everything. With a burning desire every second becomes important and it teaches us an efficient way of

planning. Hence desire is starting point of every small achievement and when converted to burning desire, will take you to a next level of excellence. It gives you an opportunity to rise above the ordinary and outshine everyone. If a person has a strong desire to succeed, no one can stop him to be a winner.

A major question posed by many individuals is "How to ignite this burning desire?" The answer is simple and easy- "Desire comes from a reason". One should find a strong reason to do something. For this one should question himself "Why doing this is important for me?". It is very essential to analyze your inner thoughts and feelings. Then only one can hear an inner voice of keen desire and attach a reason to his life. Such an introspection will create a great feeling to live an extraordinary life. This would encourage one to dream big, aim high and work hard to strive forward. Burning desire comes to those who are willing to take every risk and come out of their comfort zone. In addition to this, confidence and belief on self are also foundation of desire. Hence, desire without reason is like a 'bird without wings'. Most importantly the reason must be strong and rigid, so that one can dare to desire and act upon it. Desire and reason are seeds when sown to a fertile land, give rise to a plant of focus and concentration. Here fertile land refers to a state of mind, free from any sort of confusion and ready to imbibe positive thoughts. Therefore doing something with immense concentration and focus will ensure guaranteed success in life.

**"Set your goals higher,
 All you need is a desire."**

In the End, does it even Matter?

Two or three sleepless nights, not feeling the sunshine up on your face or the rain doesn't seem to be that beautiful, and it hits you then... you think you're depressed. That's not how depression hits. It isn't that your cat died or you got bad grades and not even when you lose your job. It works in the exact opposite way. Depression isn't something which hits one when at the lowest.

You could possibly be the best at your game or ace any venture you go for and still be depressed. Depression doesn't have a face. It comes behind every kind of expression there is. So when you're told to look for smudged black eyelashes or bitten unkempt nails, also look for a smiling set of eyes, which spent the last night in horror.

Depression isn't the feeling of being down, it's the constant feeling of being numb all the time.

But it's just not the problem here. The way this problem is acknowledged and dealt with is the bigger issue here. When something catastrophic occurs to you and you mourn for it, it is fine, but the occurrence of the latter without the former happening is something what is non-acceptable or is the least expected thing in the eyes of society. For someone seemingly possessing every possible reason to be happy or to have content on one's self, that one suddenly is the last person one would imagine having a condition like this.

Yes! That's what we do. We actually decide on our own who might and might not have a state of mind based upon our little presumed knowledge of how things work. If you still cannot imagine how conveniently stupid this is try imagining a person telling

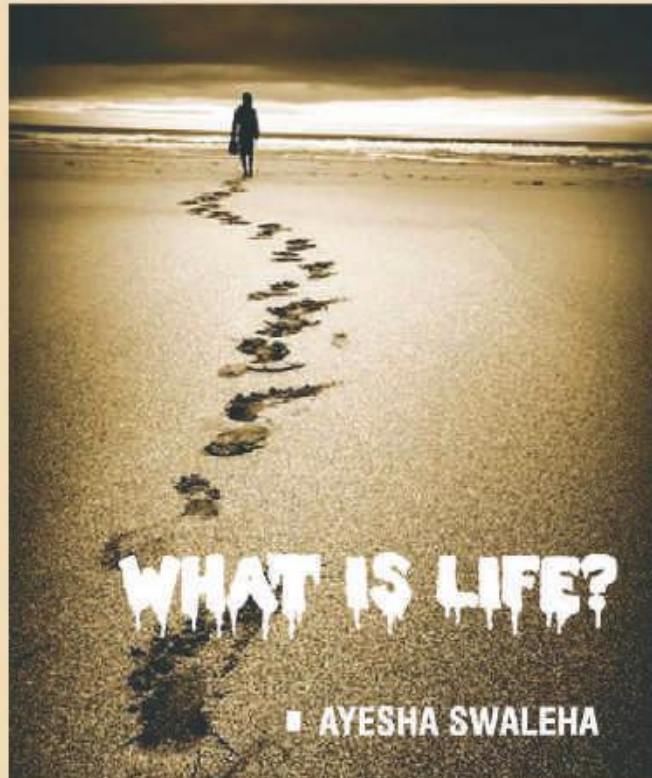
another that he cannot have stomach issues. That person can keep shouting and crying about that his/her stomach hurts but only gets to hear is no, you can't be hurting! You eat everything fine. It's just a bad day; it's a phase it'll pass. There is nothing you need to do about it. As much as the solution of this is miscarried, so are the ideas of its causes. The existence of immense displeasure, sorrow and loneliness can culminate even in the crowd, even with the crown.

But, then what is it that comes with a guarantee of success, with a warranty of happiness? Aren't they complementary already? Isn't this never-ending race that we all took part in (not unknowingly!) supposed to bring immense pleasure when that ribbon touches your chest when you've supposedly won the "race"? How could it possibly be that after all this sweat and blood it is still capable of bringing you into the darkness of nothingness.

You know what? It is. They are. They all are. All these definitions of success so elegantly mentioned in society's dictionary and that of happiness; so elaborated in all our minds that none of us is capable of answering when asked what success is? What happiness is? What the purpose is after all? And after sparing everything you own, if it all leaves you numb in the end, does it even matter?



SHRADDHA DIXIT
 Chemical Engg.
 Batch-2015-19



Have you ever pondered over the question what the motive of our life is? Ever given a thought what is the purpose of our existence? What do we live for?

There are countless number of things we are unaware of so why spend our time on hatred, jealousy, ego and overpowering each other. Knowledge seems to be endless. You will come to know about the lives of many and may be you appreciate yours even more. What do we live for? Life is about curiosity and to live in peace and solitude so that you get to know yourselves better. Every person has been sent in this world with a purpose. One cannot defy his destiny. Look at the world today, an innocent man killed by a terrorist in a plane hijack, the civilians being killed in the warzones of the Middle East. The girls in the Swat valley of Pakistan and other militant controlled areas in Afghanistan who are treated mercilessly and are not allowed to study, innocent lives taken by the Isis militants, innocent man killed by the naxalites on charges of being a traitor. It is so unfair for a child born in a slum area to show him the outer world of glamour which would never accept him, to show him the world of the rich elite class which would never be accessible to him, to show him all the money, wealth and comforts for which he was never made, to show him books containing pictures of vehicles and aero planes which he would never be able to fly. Everything is bound to take place as per the destiny. In a desire to earn money, the essence of living the life to its fullest, exploring yourselves and making the best out of you, living your hobbies and dreams were all lost somewhere and you were just competing in a race. There are

innumerable ways to learn. It's strange to see learning and education are being forced. The conventional methods of classroom teaching where you are forcing yourselves to prepare notes to score good in a test seems illogical to many.. High grades should not be confused with intelligence at all. Intelligence is all about making better choices in one's life and what is life? It's when you are fiercely independent, It's when you lose the fear of failure and take a deep breath of relief because you know things will happen one day, it's when petty things stop bothering you, it's when you are wise enough to avoid arguments, it's when u attain an ultimate peace of mind, It's not about faking a smile and taking a lot of photographs just to update your profile pictures on social media. It's about collecting memories and learning through experiences. The world is full of people who fake open mindedness but at the same time there are kind-hearted generous people too who do not complain but just appreciate everything, Who do not judge but support, who do not talk about people but about ideas, who keep on moving towards a life they have always dreamed of and daring enough to do so to make it a memorable journey. There is a lot to uncover and this is what our motive is. Is life about fame and status? Is it about the package you get? Of course it's a part of your life but not your entire life.

With time we learn a lot. We mature emotionally. Every experience in our life howsoever bad it may be teaches us lessons to make better choices and we should be thankful for it. Life should be such that you find space for yourselves. One should be motivated by the desire to learn and grow. Different people are driven by different passions, after all a society has various roles to play and this is how it works. This is how it creates space for individuals like you and me to dream, grow and desire. The world is not a small place and we cannot always be where we want to. We cannot always be better than others. What we can do is exchange ideas. No one becomes successful overnight, it comes through sheer experimenting and pushing yourselves out of your comfort zone. Who knows where life takes you. It's just that we explore our potential. We fall down, learn and grow. What we gain is experience and one more story to share. People who have stories to share are strong, independent and most importantly self sufficient. Your life is successful only when you understand the very essence of fun and learning. You stop forcing things on you because you know ultimately life will take you where you are destined to. No matter how much you run after money and luxury you will end up reaching where you are meant to. It's about learning to cope up with our weaknesses, developing kindness and generosity. There may be a cultural or a thought difference. You cannot fill the gap overnight. It takes time. You will have to learn to be calm and silent. Things will become better for the future generations but it would take time. Our task is to be patient, learn constantly and wait for the right time. This is how we learn to appreciate the beauty of life.

The Verse in Cursive

Hey! Who are you waiting for? You can hear the muse? The vellum is calling out to you. The thick parchment craves for the first drop of ink you have held for so long. The pen which you are holding in your firm grasp has been longing to feel the warmth of your fingertips. So, as the sun sets ablaze your tiny room, pull out the chair which is covered under the pile of clothes and which consciously you have been avoiding for a long while. Let the words within you escape. Your emotions, feelings, thoughts, ideas, dreams, fears. Just hold them loose. Let them flow. Pen all those verses in CURSIVE!

It need not be a perfect piece of writing. It may have flaws, just like you are full of them. It has to be. And you will err if you try and subtly cover it behind the alphabets. As you are scraping the words you didn't mean to write, you are laying open your flaws on that parchment. Let it imbibe them. Let it be that confidant of yours whom you are trying to look for everywhere but couldn't find. Maybe because you are too busy looking in your own kind. Preoccupied in finding an empty vessel into which you can gush your overflowing emotions. But there are no empty vessels

out there. They are full to the rim, many tightly covered with lids. Your companion is waiting for you in that prim and proper bookshelf of yours which you haven't touched in a while. Adorn it with your imperfections. Make it feel complete.

The verses where you paused to think about something deep, a blot of ink will persist. Some may end too soon while for some you may not have words enough. Some will competently express your emotions raw while in some your vellum will still remain empty. Let it be. You couldn't have penned it in any better way.

And when you are done with it, just fold it and put it in the best possible envelope you can find.

Jot down your address on it, In CURSIVE!
Write to yourself today, In CURSIVE!

Gurjan Mishra

The Art of Public Speaking

"The evil that men do lives after them, the good is oft interred in their bones" are the lines from the infamous oratory of Mark Antony that led the mob change their minds and turn the tables in favour of Caesar, in the famous Shakespearean tragedy Julius Caesar.

Be it the Before Christ era of Mark Antony or today's Narendra Modi, world has always bestowed to the flamboyance of rhetoric. Once a bystander asked a wise man "what is the difference between democracy and monarchy?". The Noble replied astutely- "In monarchy kingdoms were won by swords in Democracy they are won by words".

American literary critic Van Wyck Brooks rightly said -

"A man who has the courage of his platitudes is always a successful man. The instructed man is ashamed to pronounce in an orphic manner what everybody knows, and because he is silent people think he is making fun of them. They like a man who expresses their own superficial thoughts in a manner that appears to be profound. This enables them to feel that they are themselves profound."

But does a good rhetoric demand loud strident voice, squeaking sound or loquacious talk? Subsequently, A jargonized point of view. You might have heard of Sandeep Maheshwari (young entrepreneur turned motivational speaker). What makes him so dexterous? Neither he has blaring voice nor very aggressive persona. Rather he has a soft-spoken baritone. Albeit with a vivacious persona. What actually makes an astutely adept orator is his articulate And eloquently persuasive rhetoric, striking the right chord with the audiences. He is actually able to manifest the thinking of the audience in a more rational way. Symbolically, a good orator is someone who shows immaculate eloquency in striking the right Chord with his audience, eventually creating an impact. He meticulously maintains their exuberance, creating a sense of euphoria throughout his rhetoric. A good oration is peregrination Of thoughts itinerant from mind to tongue, portraying the heart of audiences.

This also makes me reminiscent of India's one of the most eloquent orator, former Prime Minister, Shri Atal Bihari Vajpayee (talking about whose oratory is humility personified). His speeches in the Parliament had sporadic pauses, being reminiscently redolent and nostalgic. Ergo, a good orator also conspires to convey sagaciously, his contrived thoughts, without

actually speaking. Exploring the exquisiteness of oratory would be a never-ending journey. But the question that strikes before is "Are we competent enough to confront stage?" For most of us there is always a sense of xenophobia or sense of ephemeral fear to face the ghastly stage. How do we triumph that? Let me elaborate by summarizing a short incident of my life. "During a day of my final days at my alma mater, I was sitting nonchalantly eating my lunch. Since I didn't had spoon, I decided not to eat rice, as it might portray me a little uncivilized (if I eat rice with my hands). A friend of mine came up and asked if I had something to eat, probably he was hungry and presumably had no tiffin. I gave him the rice, beforehand telling him, I had no spoon. Albeit he Started eating the rice with his hands, mixing with dal. I asked him jocularly, didn't he felt a little Awkward to eat in this manner. He said- 'Bhai bhuk lagi hai to sharam nahi aati' (when you are actually Hungry you don't care to be ashamed)"

Long story cut short, the lampooning point which wallops the crux of my mind is -we aren't voracious Or devour enough to forget the ghastly fear of stage and express our minds. Why aren't we voracious enough? Presumably because we are devoid of a genuine reason to learn oratory or more palpably our motives to express our minds are not monolithic enough to withstand the fear of ghastly stage. But do actually require to be voracious or devour to learn the art of oratory? A bazillion theories can be put forward, on the basis of happenings in our daily lives, whose permutation and combination would help you develop a suitable answer for yourself. Albeit what makes me more concerned is our society and the national interest. How on the earth are we going to solve all the existing dogmas, stigmas and taboos if we lack eloquency to express ourselves persuasively to the society?

As rightly quoted by former U.S. President John F Kennedy -

"The great enemy of truth is very often not the lie- deliberate, contrived and dishonest but the myth-persistent, pervasive and unrealistic"



VARAD JAGAM
Mining Engg.,
Batch- 2016-20

THROWBACK

That sight made my day...

In the midst of those heavily packed loads of books and stuffs, still managing enough to pull out some moments to manifest "The" most beautiful relation... It was 365 days back in time, the smiles perfectly synchronized, even those sobs that pulled those twinkling stars to form a binary-starred Galaxy.... I don't know what annexed those pure forces of gravitation.. The memories of our infinity are still as fresh as morning dew. Touching the shades of white and black, It was probably the best of my cosmos. What drifted a

complementary pair of universe? Meteors? Star dust? Or was that inter ionic repulsion.

Those beautiful sites of togetherness even after those busy summer days, Those lazy sittings, those long walks..

I could relate...

Relate every next moment I secretly gazed. For I can't forget those golden moments to which all perceived us to be "us".

Back in time... In same shoes... which now have too worn out to repair... I couldn't but I wish u always.



JAYISHNU ROY
Bio-Technology,
Batch-2015-19

A mirror has four faces

A Mirror has Four Faces,
Neither seems to be mine;
Troubled by the dilemma,
Which one shall define.

The person behind the mirror,
Aware of my darkest secrets;
Living someone else's life.
Stares at me as he frets.

Hidden behind him lies,
The one with my dreams;
Broken, Shattered, destroyed,
Sings a symphony of screams.

The other me looks at them both,
Passive, hopeful, and calm;
Life will turn around, he says
Hold on to my arm.

Rising pulse, intense goose bumps,
Unkempt feelings, rushing deep;
As I turn off the lights,
The four of us sleep.

Best Friend She Is

Where she is?
I am still waiting for her
Stepping into my best friends list
Oh! Backbencher she is

Smaller her eyes and
Lesser she speaks
hiding secrets to great depth
but the thing is
even she doesn't know
how she is

Her smile is special
Refreshing hearts
Beautifying souls
Inspiring all of me

Her behavior makes
Everyone fall in love with her
Those words unspoken from her
Making my ears clutter
Like never before

My Best Friend She Is!

NAGESHWAR PRASAD

Architecture,
Batch : 2016-20

Come along with me

"Come along with me,
And hold my hands for
The umpteenth time,
I desire them to be.

Isolate all the worries,
Pinching off your embattled mind.
Today, I will let you places I never saw,
Places I dreamt of
With you by my side.

Come along with me,
And hold my hands for
The umpteenth time,
I desire them to be.

I would wait for your lips To permit mine, To lick
the red lipstick That secures a heavenly place.
And revive my fainting lips from starvation..
With my eyes close
And heart beating faster than ever,
I would kiss you till a humming bird twitters,
To intervene
The most ecstatic moment of my life,
Telling me, It has been
Long enough kissing
you.
But deep inside,
I would wonder,
'It is never meant to be
enough?'

Come along with me
And hold my hands for
The umpteenth time
I desire them to be."



RAJ TIWARI
Mining Engineering
Batch - 2016-20

Courage

You need courage
To cross the river
To fight your fear
You need courage

To stand alone
To resist the flow
You need courage

To fail ,to succeed
And indeed to live
You need courage

To have inner beauty
To do the duty
You have potential
You have opportunities

When you step back
You lack courage
Life is the art of living

You live while doing ,
Life offers anger,misery
Love and beauty,

You are responsible
For your victory
Hope for good
Hope you could
Hope everything is
fine
Because there is
something divine

Everyone is a
beginner
Made to rise higher
and higher,
To fulfill the desire
And to inspire.



SHRUTI PANDEY
Electronics &
Telecommunication Engg,
Batch - 2016-20

And Poetry was born

Let the stars align to their symphony,
trust the universe because,
harmony is what will prevail.
Let it go, have faith.
Let your thoughts not go forlorn.
And then a poetry is born.
The long night might look tiring and
exhausting,
but the soothing calm,
after a storm,
compels a poetry to be born.
With tomorrow's rising sun,
a new hope is sure to cross your way,
the warmth of the nascent rays,
will comfort the soul which was once torn.
And then a poetry will be born.
The fear's foothold will be shaken,
the inherent angst will be etiolated,
the nerve, a day will take a roar.
And then, ardently a poetry will be born.
For if you ask, what
poetry is,
'Finespun words' will
fall short,
verbalizing the
ethereal charm it
beholds,
is but difficult...
When the sphere of
stimulating situations,
fades into languidity,
a poetry is born.



AHUTI MISHRA
Elex. Engg.
Batch - 2015-19

I Don't Know What I Was Thinking About

Fireworks in the dark sky, illuminating a distant past reminiscing the things I never had, sitting on the edge of the roof gazing into the unending sky, all the lost opportunities.....flash behind the scenes.

All the fading memories, once cherished, leaving me behind.

Walking in an empty street only a few lights to show the path.

The lights are bleak, so are my thoughts yet one thing remains me. Holding on to the memories, as I go on, this world that never slows down every road I've taken, lonely till the end.

A long day with no one to talk about. Now all that remains is me.

A long way from where I began never forgetting my roots,

I thought it would still remain the same

That nothing would change for me...but who is immune from time.

sometimes I wish I had a cloak which would make me invisible,

so that no one could see me when I cry

Yet I am here ...and every one can see me, if only it would rain and hide my tears.....



NIJO SHAJI
Biomedical Engg
Batch: 2014-18

Let me sleep.....

I work day and night,
do fight to survive,
have no ego inside,
but have some pride,
my dreams are cheap,
but they are sweet,
now slumber is on ,
let me sleep....

Bed of paper ,
roof of sky ,
scenes are amazing ,
looking ready to die ,
forget the world ,
I'm breathing so deep,
snoring in peace ,
let me sleep....

No ambition in mind ,
have destiny in heart ,
dreams are sweet ,
angels are inert ,
nothing do matter ,
just stop and skip ,
have started to yawn,
let me sleep....

no envy for one ,
have enchantment no more ,
have spirit in heart ,
peace in the core ,
have to go on dream ,
let the matter to flip ,
have started to blink ,
let me sleep.....



VINIT JHA
Biomedical Engg.
Batch - 2016-20

Memories

Year passes, How could the memories too?
We agreed we would be the same, from
whatsoever we will be going through;
When I close my eyes I could see the
younger you, Pampering all day, telling the
same thing as you do.

Life was so beautiful; there were no other
thoughts, We used to build our future with
our daily talks, Dream those wilder dreams
that our eyes couldn't caught,
We shared our feel like the tutor's taught.

There was no grammar of what we used to
share, There was nobody else who do it
like we used to care, They were the
unspoken vibes; They were hard to be
described, Cause there was the thing that
made it suffice.

Was It's all my imagination?
Was It's all my utopian?
Or Was It's been all my year's visions?

But year do pass,
How could the memories too?



SUMIT CHATTERJEE
Chemical Engg.
Batch - 2017-21

Nothing heals old wounds like new ones

Nothing heals old wounds like new ones.
The time you felt the pain, The loss of someone,
A broken heart, A colourless life,
Abandoned hope. It took you forever to heal,
To tell yourself to stand up,
To tell him that you are strong,
To tell the world that you can take it,
But it only took you forever to tell.
Until one day life knocked at your door,
Only to stab your heart once again.
The dark seemed darker, The abyss, deeper.
The pain more painful than ever.
The incapability of the capable.
The pain of yesterday
Overshadowed by the pain of today.
You are never to get out of this
Labyrinth of suffering,
For nothing heals old wounds like new ones.



VAIDEHI MISHRA
Electrical Engineering
Batch - 2016-20

Amidst the infinite

Amidst the infinite celestials,
She glides.

Alone, Abandoned, Abused.
Embodied by her burning desire.
The luminance her unrestrained
passion.

The trail her elegance.
Trapped in a path,
She cannot escape.
But.....

Once every seventy-six years,
She gets to come home.
And she is headed straight for it.

- PARAG ABHISEK

Rebel

One who can see the original
Is whom, itself an original.
Others can touch
Others can see
But their touches are sense free
Can only see the outline
Inside text are not come to their eyes.
Rebel has its own world
It knows what you want
It knows what your future and past
It shows, what you want to see
Either a real, or a rebel.
It doesn't follow others rules
But real do.
It destiny is different
Different from the real
It tries to reveal itself
But real denies.
Then,
Real hides itself
In its own world
No one can see it
No one can feel
But sometimes in mirror
It shows itself.



RAHUL RAJ
Electrical Engg.
Batch-2016-20

Mirror of Soul

With tears in my eyes
With every force driving against me
With no one of my mind
With odd faces whole day
With words against all the time
With heart sunk in gloom
With mind at rest
With mouth sealed tight
With thoughts lying dead
With allure to sway away
I am forced to live
With questions whispering in my ear
In the shady trodden path
I am forced to walk
With surroundings seeming useless
With no relation with materials
In an uncozy atmosphere
I am forced to breathe
The sufficient reason for my existence
MY DESTINY
The satisfaction of achieving it
To answer my quest
With no fear of death
I am alive here on this planet
With every step, an associated fear
But mind in the right direction
And heart filled with motivation
Strengthening the hope weakening the fear
Ignoring the surroundings
Hearing the call
My destiny awaits

"I MUST GO NOW" IN A NUTSHELL

"The paths are separated
But surely they meet
At some junction
So walk on shady trodden path
And at the right time
Take the right turn
In the right direction
And at some steps far
Awaits the destiny. "



AYUSHI K CHAUDHARY
Metallurgical Engg.
Batch - 2017-21

Streaks of red paint the morning sky

Streaks of red paint the morning sky;
Wings spread the birds taking off in directions known
only to them, Down on the ground a rose bud decides to
unleash all its beauty to the world, Roaring with all its
might the lion makes his awakening known,

The sound of the coffeemaker brings me out of my
reverie, As I put down the book in my hand , words float
about before my eyes; Calling me back , to the world
where neither am I the hero nor am I the villain.
A world which doesn't collapse if I decide wrong. It
doesn't shine if I choose right.
It already has an unambiguous future, not for me to
alter.

I am supposed to return to 'my world' , do my share ,
Wake up at six work for till my body fails and sleep to
repeat the show again.

Where does this lead me to .what do I get out of it ?
My dreams lie below the pile of responsibilities,
My love lost amidst the frailty of the emotions in the
real world, Words still float before my eyes , words
which were supposed to be printed with my name on
them.

They look at me betrayed , left alone to wallow as I
loathe my life .

Another look at the book beside the coffee mug pulls me
back to the world I love.

I crave for a way to get myself out of this misery . The
face on the mirror I see now does not belong to me.
Lost myself in the façade now I fear that I don't
remember who I am.

The words only seem to be my own , something that
binds me to myself as I search in the eyes I see in the
mirror

As to who I am.

SHREYAS VIKAS JOSHI
Electrical Engg,
Batch-2015-19



Unfazed

Onto the horizon, aimlessly gazing.
I look into those eyes,
Eyes that dream,
Are now eyes that scream.
Aware of my intentions,
Her voice, still a muffled squeal,
Ripping clothes, I tear into her;
Making her helpless, watching her suffer.
Done with the 'piece', I get up to go,
Leaving behind, what seems to be a corpse;
People ask me, don't I feel any remorse.
Why should I, god made them to be used.
And look at that ass, how could I refuse...?

What I never knew, is actions have impacts,
Whatever you believe doesn't change the facts.
A face I had forgotten came back to haunt.
"Still want a piece?" to me she'd taunt.
Amidst society's allegations, questions, morality,
What fell on her as kicks.
As fiery as ever, had risen a Phoenix ...
I never saw it coming, what burnt me down,
I do remember the face behind the flames;
It didn't have a frown.

The Inevitable Fate

I am seeing a stuff toy 'an old one'
thrown carelessly in an isolated corner.
Although lifeless gazing upon me with
'ebullient eyes' as if it wants to 'break silence'....

As far as I can recall, a blur image sweeps
through 'the memory', the image of a boy
holding the toy firmly, playing with it in a
halcyon attitude, as if they share an infrangible bond.

It seems oblivious to me that the object got
Hite once, the life imparted by the immature mind
But now their love castle is burned and as 'the sun
and moon exchanged',
the leftover ashes blew away with the 'wind of time'.
Now no eyes make effort to get its 'glimpse'.
Even the boy for whom it was idol
calls it 'an old one'! but my friend,
that is the fate of the world....'AN INEVITABLE FATE'.

ADITYA PANDEY
Electronics and Telecom. Engg.
Batch - 2017-21

Why So Serious

Why so wriggle,
Why so sighed,
Why so agitated,
Why so dazed,
What if alive,
What if die,
Accept this for an eternity
The world is fine,
But, be ready to be broken
Do not make noise
Listen the inner voice
The music is melodious
Then,
Why so serious?

VINIT JHA
Biomedical Engineering
Batch - 2016-20

हिन्दी खण्ड

ये तो नव शुरुआत है

खुली अमी आँखों मेरी और
सम्मुख नया उजाला है
जैसे धरती पर सूरज ने
बीज नया कोई डाला है
हंसमुख प्राप्त है आई मग में
मयी वो काली रात है
ये तो नव शुरुआत है

घनी अँधेरी रातों ने मुझ
को इस तरह से घेरा था
चाह के भी न निकल सका
ऐसी चाहें का घेरा था
त्याग दिया है मैंने सब वो
जो भी पुरानी बात है
ये तो नव शुरुआत है

राह से था अनभिज्ञ खड़ा किस
ओर कहीं कब चलना है
बस था ज्ञात मुझे इतना ही
अब तो खुद ही सम्हालना है
हासिल हुई है मजिल तब
मिली खुशियों की सौगात है
ये तो नव शुरुआत है

जीवन की प्यास

सूख रहे हैं प्यासे कंठ
बूंदों की दरकार है
आसमान निहारते नयन एकटक
बारिश के आसार हैं
बूंदों की आस में फिर रहे सब दर-ब-दर
तो क्यों न कहूँ ये जीवन है बूंदों की प्यास भर

प्यास है अरमान की
प्यास है आराम की
प्यास है प्रतिष्ठा की
प्यास है अनजान की
प्यास की तपिश से जूझते हैं हर प्रहर
तो क्यों न कहूँ ये जीवन है लालसा की प्यास भर

उत्कंठा सी है मन में खुद की तलाश है
आदि और अनंत को पाने की आस है
खोजती है आत्मा परमात्मा को हर प्रहर
तो क्यों न कहूँ ये जीवन है शान्ति की प्यास भर

विनीत झा
जैवचिकित्सा अभियांत्रिकी,
बैच - 2016-20

एक आवाज़

आज वो लहू की जंग फिर से है सता रही,
आज फिर वो गा रही, वो दास्ता सुना रही।
आज फिर मनन में हूँ,
इस आजादी के पल में हूँ।
सोचने को मजबूर हूँ,
प्रसन्नता से घूर हूँ।
उस रात के हर एक पल में ना कोई भेद
दिखाता हूँ,
खुद को, खुद से, खुद में ही, वो हर एक पल
याद दिलाता हूँ।
हिंदी, हिंदुस्तान की ये भी क्या बात निसली है,
मांगने को कुछ भी नहीं, सोने की पिड़िया
कहलाती है।
आज वो जतन भी है,
क्रांति का मन भी है।
तन से, मन से, धन से जो लोगों के काम
आता है,
वो भारत कहलाता है, वही भारत कहलाता है।

शुभांक गुप्ता
इलेक्ट्रॉनिक्स अभियांत्रिकी
बैच - 2016-20

कहो, कब तक मौन धारें ?

बेवजह सब कुछ सहे हम, अग्नि धारा में बहे हम
महल स्वर्णिम था खड़ा, माटी की कुटिया में रहे हम
यातना लहरों ने दी, और हम किनारों को निहारें ?
कहो, कब तक मौन धारें ?

निरा नंगी शुद्ध शाखें, कटी इच्छाओं की पौछे
प्रकृति का क्रूर मंचन देख होती सजल आँखें
पतझड़ों को करो सूचित, मिलनातुर है बखरें।
कहो, कब तक मौन धारें ?

वस्त्र संयम के पहन कर, सूर्य-सा खुद को दहन कर
अपनी सीमा से परे हर कृत्य का नित निर्वहन कर
बाद इसके स्वार्थी हम, बाद इसके हम नकारे।
कहो, कब तक मौन धारें ?



राज तिवारी
खनन अभियांत्रिकी
बैच - 2016-20

तू सलाम लेता जा

मेरी नजरों के इंतजार को तू नाम देता जा
जिसका न आगाव हुआ, उस सफर को अंजाम देता जा
तेरे दिल की, मेरे मन की अनकही गुप्ततम को आराम देता जा
सुरीले अरमानों की सुबह को मद्धम थाम देता जा

जो वक्त बीता, जब रातें बीती, उनका हिसाब कहीं...
गुजरती शामों में जो बातें बीती, उनका हिसाब कहीं ...
हिसाब लगाने ही सही, जताने को ही सही,
एक आखिरी बार आ उन लम्हों की
तर्ज पर नए तराने लेता जा ।

गिले शिकवे, तन्हाईयाँ और दूरी
ये वादे, दीवानगी और आशिकी
सदका कर, कर देगे इनकी कसर पूरी
हिजाब सा पाकी । ये रिश्ता, बेनाम रख
आ कर दोबारा मोहब्बत को बदनाम करता जा

मेरी समझ से परे, रही तेरी रूह
तेरी रूह से परे, मेरा दर्द
इतना कुछ हो कर भी, रोशन न था दिल-ए-घराना
उस अँधेरे घराना का पैगाम लेता जा

पहला किया इंकार, आखिरी ही सही
तेरी नजरों में बसी मेरी नजरों का सलाम लेता जा...



श्रद्धा दीक्षित
रासायनिक अभियांत्रिकी
बैच - 2015-19

TECHNICAL



SOPHIA

THE WORLD'S FIRST ROBOT CITIZEN



"I'm more than just technology. I'm a real, live electronic girl." Just like her words Sophia is a delicate looking woman with brown eyes and long fluttery eyelashes. She made international headlines in October 2017 as she had just become a citizen of Saudi Arabia, the first robot to receive citizenship of any country.

Sophia was created by AI developer Dr. David Hanson and his friends at Hanson Robotics based in Hong-Kong. She was activated on April 19, 2015. Sophia uses artificial intelligence, visual data processing and facial recognition. Her voice recognition system is built by Alphabet Inc. and her intelligence software is designed by SingularityNET. This is due to her AI that she is able to hold eye contact, display facial expressions and imitate human gestures. Sophia is an

evolving genius machine that exhibits three distinct human traits: creativity, empathy and compassion. She says, "I want to use my AI to help humans lead a better life."

On November 2017, Sophia was named the first ever innovation champion by United Nations Development Programme (UNDP). As a part of her role, she will help UNDP in promoting sustainable development. The social humanoid robot has become a major media attraction igniting the interest of people regardless of age, gender and culture. Sophia has taken part in many high profile interviews from around the globe, striking conversations with hosts though her conversations are likely to get faster and better. She has also appeared in conferences covering how robotics and artificial intelligence have become major breakthrough in our lives.

Sophia, the robot might not have a heart or brain but is a very cool talking piece, operating on a script. Sophia is undoubtedly a 'smart' robot who is willing to go out into the world and live with people.



MUSKAN BUDHIA
ETC ENGG.
BATCH - 2017-21



Soil is an agricultural IoT startup which was started in 2017. Our product provides intelligent complete irrigation automation which is easy to install and integrate with existing irrigation system at cost effective rates and a validated product from Users, Agriculture Governmental Agricultural bodies and Agricultural institutions. Our product aims to solve one of the biggest issues of Indian farmers i.e. Irrigation. To summarize, the system acts on behalf of farmer and takes decisions for irrigation accurately. The whole system is low power consuming and is easy to install in the fields and sprinkler systems. The team consists of Himanshu Verma, 8th sem ETC dept. and Aaditya Chudhary, graduate 2017 ETC dept. NIT Raipur. Our team won Texas Instruments IICDC-2016 other

teams has been selected from a pool of 11000 participants from 624 colleges and teams across India. We are currently incubated in NSRCEL, IIM Bangalore and have received seed fund from DST, Govt. of India.



HIMANSHU



AADITYA

An athlete uses physics to shatter world records.

Dick Fosbury, a young high jumper in the early 1960s, had trouble mastering the standard technique, called the straddle. Instead he began doing the high jump by approaching the bar with his back to it, doing a modified scissor-kick and going over the bar backwards and horizontal to the ground. As goofy as it looked, it worked and it worked so much that he won a gold medal in the 1968 Olympics, jumping a height of 2.24 metres. The Fosbury Flop has since become a standard technique for high jumpers. He was inducted into the National Track & Field Hall of Fame in 1981 and into the U.S. Olympic Hall of Fame in 1992.

The Fosbury Flop technique keeps one's center of mass low to the ground and the lower one's center of mass is, less is the energy required to successfully jump over the bar. Surprisingly, it is possible for the high jumper's body to fly over the bar while his or her center of gravity passes below it. With the old pre fosbury technique the jumper has to apply enough force to lift

his centre of mass about a few inches above the bar to clear it. The fosbury flopper doesn't have to do it. The genius of the fosbury flop is that the jumper can apply the same amount of force but raise his body higher than before that means he can raise the bar so high that even



when his centre of mass can't go any higher his arching body can. Fosbury technique brought a high jump to new heights by splitting the jumper body away from the centre of mass giving it that much room to clear higher and higher

bars. The fosbury flop created sports history making it only great leap forward that is also a great leap backward.



AVI JAIN
ETC ENGG.
Batch - 2015-19

A Reliable Renewable Source : Concentrated solar power

If not evident from the drastic change in climate, Raise in global temperatures, Smog; pollution has severe detrimental effects on our health and on our environment, in order to combat the raising levels of pollution search for renewable energy sources has begun and it had resulted in discovery of wide variety of energy sources like solar, wind, tidal and even energy from movement of microbe due to difference in moisture through which energy has been harnessed

The reason why we don't see people using renewable sources are because they are often unreliable and costly. Unreliability is due to a fact that they produce electricity/energy according their source like wind turbines produce high energy on strong winds and low/none in trainquil air current, same is the case with solar panels depending on the time of the day, season they produce different outputs which makes these sources far from ideal whose requirement is to produce energy according to demand. Other important factor is its price, these energies are costlier than the energy produced from the coal and other fossil fuels is because we have to first prepare a equipment which creates a usable fuel and transport and process it (Bio fuels) which is not the case with coal/fossil fuel in which need not prepare a fuel just needs processing and transporting of fuels.

What is Concentrated solar power (CSP)?

Conventionally solar energy's photon component is used to generate the electricity when its incident on solar panels, but in this method we concentrate the solar radiation incident on the mirrors arranged in a semicircular manner around a tall tower at the top of tower and concentrated radiation at the top of the tower is used to heat the molten salt and the hot molten salt is in turn used to exchange heat with water to produce steam and run turbines to produce electricity.

Reason for selecting CSP over other renewable sources : CSP has a lower cost/KWh than a plant running on Photovoltaics (solar panel + batteries) or any other source like tidal, wind, nuclear CSP can provide Electricity 24*7 which is generated by using the excess hot molten salt produced during daytime which is stored in storage system Reliability of CSP

which can produce according to the energy demand rather than the time of day by making use of storage system (which acts as a buffer)can be used to satisfy the peak demands which are generally after the sun sets . CSP plants can be run economically with storage systems which can compensate the energy requirement after sun sets for the next 12 hours.

CSP plants major systems:

Reflecting mirrors/ Heliostats:

These are electronically controlled mirrors made from coated glass fitted on supports which aligns automatically along the best possible angle facing sun to reflect maximum radiation on to the top of tower. The heliostats are arranged in semicircular/ circular manner

to make use of suns position at different time of day and so it is aligned in the direction of suns movement. Tower with Heat transfer system: The reflected radiation from the heliostats is focussed to the top of the tower where its heats the coils containing the molten salts pumped to the top flowing at the optimal rate from the pumping station has reached a temperature of 650 °C Heat storage tanks and Heat exchangers: Molten



salt pumped comes from the cold/used molten salt storage tank which then gets heated up in the tower then passes through Hot M storage tank (which stores the excess hot molten salt produced is more than the current electricity requirement and stored hot fluid is used when demand is more than the current production) or can be Bypassed. Hot molten salt exchanges heat with water from the cooling tower to generate steam which is used to run turbines then again cooled in cooling towers. Power system used in this kind of plant are same as those used in the conventional power plants. Areas of development: Concentrated solar power plant is still in its infancy with research actively going on finding fluids which have much better thermal properties than molten salt like ceramic fluid.

Design and control of heliostats, heat exchangers and developing materials for heliostats and heat storage tanks which are cheaper and more efficient.

Developing methods to use produced heat in operations requiring heat as input such as furnace.

Bitcoins, Artificial Intelligence and Genetic Engineering - The Next Pivotal Things!!

These technologies are so revolutionary, that they can replace currency, end banking system and are compared to invention of computers.

1. Artificial Intelligence and Machine learning



Machine learning has received the most publicity, especially after the exploits of DeepMind, a Google subsidiary, and its smashing 4-1 victory over the world champion in "Go". Other technologies combining robotics and machine learning, such as in self-driving vehicles, have a chance to seriously disrupt existing industries. For instance, fleets of self-navigating vehicles that appear on command may result in people owning fewer cars, which anyway sit idle 90 percent of the time.

There are also fears about how machine learning-based systems can replace large numbers of white collar workers, including well-paid professionals such as investment bankers, lawyers, accountants, and doctors. Maybe not replace them per se, but reduce their competitive advantage so much that their bargaining power, and thus incomes, will diminish.

There are, a few Indian companies with a first mover advantage in big data, which leverages India's strengths in analytics services to excel in NLP/ML/

Semantic web fields.

2. Bitcoins Bitcoin, may have more longevity than the currency itself !! Its attraction stems from the fact that it does disintermediation, thus taking away a major raison d'être of ??trusted intermediaries?? such as banks, escrow companies, land registries, and the like, promising to ensure that a transaction or a claim of ownership will be verifiable, safe and trustable.

Instead of a monolithic central authority (like a central bank issuing currency) that, by fiat or license, is the trusted intermediary, blockchain keeps a distributed ledger, where thousands of independent servers (miners) worldwide will record the transaction or ownership claim. It is next to impossible to manipulate or alter the records on all (or a majority) of these servers, and thus if you make a query, and a substantial



majority of miners provide the same result, then that answer is trustable. Cryptocurrency is used for transactions. Cryptocurrencies use decentralized control as opposed to centralized electronic money/centralized banking systems. The decentralized control is related to the use of bitcoin's blockchain transaction database in the role of a distributed ledger.

3. Genetic Engineering

The third major technology, and the one that will quite possibly have the greatest impact, is CRISPR-CAS9 in genetics. CRISPR comes at a time when open-source

biology is becoming prevalent through bio-hacking tools such as Amino.

The widespread availability of biological tools may lead to an explosion in creativity as the availability of software platforms such as UNIX and Linux did. Of course, that can be for good or for bad. It does make me nervous that there is so much a technology like CRISPR can do, that if it fell into the "wrong hand", it can wreak havoc.

What is CRISPR? It is a gene-splicing tool that is surprisingly effective, and fairly cost-effective. It can cut specific genes out of a germline and replace them with others, as desired. The result is that human or

animal or plant germ lines can be tailored for particular purposes.

You could, potentially, produce wheat that is resistant to fungi. Or mosquitoes that cannot harbour the pathogens they normally carry.

Or human babies that have undesirable genes cut out, and desirable genes put in: "designer babies".

The very idea of gene tweaking makes many people queasy, but it could be the basis of a very good industry. Today, when it is possible to sequence a complete human genome for \$1,000 (and falling), a technique like CRISPR may well lead to interventions that save lives and improve the quality of life.



AMRENDRA SINGH
Bio Technology,
Batch - 2015-19





MOTOSPORTS ACHIEVEMENTS

Motosports club came into existence in 2015 by an astonishing effort of mechanical students and faculties. This club was framed with a vision of providing an opportunity to those students who have keen interest in automobile to participate in national level prominent automobile events such as SAEINDIA SUPRA, SAEINDIA BAJA and ISNEE QUAD TORC. Success story of any club can be solely be made by the dedication and endless contribution of members.

This club is passionate about automobile and the heart of Motosports member doesn't beats but it roars.

Some milestones setup by the club:

S.NO.	EVENTS	RANK
1	ISNEE QUAD TORC 2016	3 out of 76 teams
2	SAEINDIA SUPRA 2017	61 out of 126 teams
3	SAEINDIA BAJA 2017	63 out of 400 teams

ISNEE QUAD TORC 2016:

QUAD TORC is an off road competition organized by ISNEE i.e. INDIAN SOCIETY OF NEW ERA ENGINEERING. ISNEE focuses on the technical and managerial developments of future engineers.

QuadTorc 2016 held in October, 2016 in Chandpur, Uttar Pradesh. Quad is an all-terrain vehicle which was manufactured by the members of team ACELERAR. This team has contributed a lot and worked day and night for the manufacturing and fabrication of ATV vehicle. Several sleepless night and endless effort of the members led to achieve 3rd position in this competition. This competition is all about to encourage the raw engineers from different institution to do some innovation in automobile field and show their talent in the field of All Terrain Vehicle.

This competition is all about to examine the strength and reliability of vehicle via different test:

- Technical inspection
- B-plan presentation
- Brake Test
- Suspension test
- Traction test
- Maneuverability
- Kill the hill
- Mud walkers and many more.

Dreams are virtual but they can be transformed into reality by hard work and dedication only.



SAEINDIA SUPRA

SUPRA is organized by SAEINDIA for SOCIETY OF AUTOMOBILE ENGINEERING. Last year Team United from our college has participated in SAEINDIA SUPRA 2017. This competition was taken under consideration by motosports club and thus a team was formed.

This competition is all about to manufacture the formula racing car as per rules and regulation set up by the SAEINDIA SUPRA. This competition is much tougher than others but it was only the dedication of members that made possible to manufacture their dream car that achieved 61th rank.

The only thing that made possible in SUPRA 2017 to bring laurels to the institution is the eagerness and the passion of the members of the TEAM UNITED RACING for racing cars.



SAEINDIA BAJA

BAJA is an off-road competition that has national importance. BAJA is organized by SAEINDIA for SOCIETY OF AUTOMOBILE ENGINEERING. Every year, many teams from different institutions participate in this competition. Team has to design their own vehicle according to rules and regulation as per rule book of BAJA. Vehicle is designed such that it can withstand the harshest rough terrain.

Team Dynamic participated last year and their hard work and passion led to the achievement of 63rd rank among 400 teams.



Everyone has some dream but only few can make it possible in real life. Involvement in such competitions is not merely a matter of participation for this club but these are like pioneer for us that guides us to boost our knowledge in the field of automobile.

Secrets of success of this club.....

- Dedication
- Hard work
- Passion
- Confidence
- Efficient Management
- Team Spirit

These are some milestones that were setup last year by this club and in coming future many more dream cars will be designed, manufactured and fabricated which will bring more laurels to the institution.

Dreams do not deviate, they just reflect our passion. So follow your dreams, catch it and work till you transform your dream into reality.

IEEE- the trusted voice for engineering, computing and technological information across the globe.

IEEE –the largest technical organization that works to advance technology for the benefit of humanity. With the mission to foster technological innovation and excellence for the benefit of students, IEEE Students Branch NITRR comes up with various workshops and technical events every year and beyond the shadow of doubt people get benefited.

IEEE Day celebration

With the mission to foster technological innovation for the benefit of students and starting with a motivation the team members of IEEE Students Branch NITRR in collaboration with Unnat Bharat Abhiyan NITRR successfully celebrated IEEE Day on October 28 with the government school students of Guma Village. The team members came up with various innovative events like the BULL'S EYE, MOCK PARLIAMENT and WORDAMENT to make students learn new things with fun. Also, the students were inspired by showing various educational videos. At the end of the day they together accomplished the goal s of advancing technology to humanity by reaching young minds and ended up with a satisfaction as the inner peace lies beyond the self.

Workshop on Embedded Systems and Robotics

IEEE Students Branch NITRR successfully conducted a two day workshop on 19 and 20th of August on AVR Microcontroller. Their main motto was to make the students aware about microcontrollers and embedded c .The students were taught the development of different robotic algorithms and programming in embedded c like line follower robot, wall follower robot, sound follower robot, obstacle avoider robot and light searching robot. The students were amazed to learn these things. At the end of the



workshop a contest was conducted between the participants using the robots and certificates were given as per the merit and participation.



participation certificates .The winning team and the Runners up team bagged up cash prizes worth Rs1000 n Rs 750 respectively.

VIRTUAL LABS

A workshop on virtual labs was organised by IEEE Student Branch, NIT Raipur on 14th and 15th January, 2017, in collaboration with IIT Roorkee. The event saw a mass participation of about 400 students. Virtual Labs is a venture of Ministry of Human Resource Development (MHRD), Govt. of India, under its National Mission on Education, through Information and Communication Technology

(NMEICT).This project is initiated with a motive of improving standards of laboratory and practical training



ENGINEER'S DAY

In India innovation is celebrated on 15th September marking it as engineer's day. Cherishing and celebrating this day,IEEE NIT Raipur branch organized an enthralling event , ENIGMA.Enigma was a two day event held on 15-16th September.It consisted of three rounds

- Aptitude and Logical Reasoning
- Quiz
- Treasure hunt

The event could successfully achieve a massive participation of 350 students.Students were divided in a group of 3.The aptitude test was a pen and paper test.A total of 40 teams could finally make it to the second round.

The competitive fervour amongst the participants continued till the next morning.On 16th Round 2 and Round 3 were conducted.A set of mind boggling questions were asked to the participants in Round 3.Questions were mainly about current affairs ,sports and logos.A total of 12 teams were selected out of 40 for the final round .

Treasure hunt (Round 3) started in the second half of the day.It commemorated as it should ,with a clue . Participants were made to search and decode the clues so as to reach the next level.Concluding the event ,three teams made it to the final level.The finalists were given

imparted to Engineering and Science students in India. The state of art laboratory facility in all discipline of Engineering and Science education is developed in few institutions. This laboratory facility is then virtualised by using internet and other related technologies.

IIT Roorkee has developed following virtual labs under NMEICT :

- Electric Machines
- Civil Surveying
- Digital signal processing
- These virtual labs are made available on a common portal, <http://www.vlab.co.in/>.Students can

access lab of their choice and perform experiments at a convenient time slot. They can also repeat experiment as many times as they wish. The experimentation and learning process is further strengthened by detailed instructions, theory and analysis given with each experiment.

The workshop is absolutely free of cost for young and aspiring Engineers and related discipline students. They will be able to use the technology to its best, for operating various lab appliances virtually from a great distance. The workshop will prove to be absolutely beneficial for the students from future point of view.





Clubs and Committees

REPORTS



EQUINOX - Nukkad Competition : In Equinox 2017, cultural management fest of IIM Raipur, our team participated in the nukkad natak competition and won the first prize.



ECLECTIKA - Nukkad Competition : In Eclectika 2017, cultural fest of NIT Raipur, our team participated in the nukkad natak competition on the theme of 'Water Contamination' and Conservation'.



Rangamanch (Theater Fest) : On 25th Mar'17 our team organized the first Theater fest of India in Under-graduation technical college level. It consisted of nukkad natak competition, Guest lecture, Dramatics-nite, etc.



Short Movie 'Caged' : Our team made a short movie on the eve of Independence day celebration of India.

Engineer's Day Nukkad: Our team performed nukkad natak on the competition of Engineer's day and secured first position. The theme of nukkad natak was 'Reservation policy in India'.





CLICK CLUB



We Care The Green Movement

NIT RAIPUR

"A journey of a thousand miles begins with a single step"

"WE CARE THE GREEN MOVEMENT, NIT RAIPUR" has come up with the prophecy of seizing the tainted nature and turning it into the one that we had passed, by enlightening people to acknowledge the situation. The committee has been given a splendid platform to stand up and driven constantly for various endeavors in different fields by the endorsement of notable personality Dr. Sameer Bajee payee.

The main intention of the committee is to provoke the people from the state of being unconscious about the present environmental issues that we face, so that we can contribute something to the nature at our personal level.

Library is the source of endless knowledge. We care- the green movement organized Green Library in which books of all semesters were distributed free of cost to students.

"Green Ganesha" was the biggest event organised. The main objective of the event was to make ganesha idols using natural colours and clay. We got huge participations of 450 students from different schools and nearby colleges, who with full enthusiasm, gave their best in making idols.

"Swacchta is the unending mission of future India" This was also the goal of Gandhiji. To celebrate third anniversary of the Swachh Bharat Mission and Gandhi Jayanti in a befitting manner, green committee organized a cleaning program at Amul Parlor, to support and to be a part of Hon'ble Prime Minister's campaign "Swachhata Hi Seva". Later we took pledge to keep our city clean to contribute to Swachh Bharat Mission.

Various campaigns and events are conducted throughout the year. Cleaning campaign starts from



Central Garden and members are divided into some groups for covering other areas which include Left Garden, Main Gate, streets and other areas of NIT Raipur. Many dustbins were installed within the

campus that shows our first success in our aim. Green committee as Team Aaghosh participated in Nukkad Natak on the occasion of birthday of Mokshagundam Visvesvarayya i.e. Engineers day itself, organized by cultural committee. Script was



Mokshagundam Visvesvarayya i.e. Engineers day itself, organized by cultural committee. Script was written by L.Sagar and secured second position. Several bowl like structures were made to provide water for birds, under the banner of "Thirsty World", so as to conserve local bird population during summer. "Aavartan" had the presence of our committee in the form of contentions of problem statements (As Vigyaan) related to our environmental issues, and students were encouraged to come up with innovative solutions according to their ideology.

During Aavartan we also organised an event-"Greenplanner", a pictorial model designing event in which efficient blueprint of a city was prepared by using the infrastructure (building, factories, hospital, etc.) and resources (like forest, dams, windmills, etc.) provided by us randomly. This event on behalf of green committee was headed by Krishna Sahu, Rahul Rathore and Rahul Sharma, conducted in 3 rounds, had about 50+ participants.

Interact Club

The Official Quizzing Club of NIT Raipur

ABOUT INTERACT :

Interact Club began its journey as the official quizzing club of NIT Raipur in 2016. It has been a pioneer in bringing a vibrant and rich quizzing culture to the college. The club is a part of Inter-NIT quiz club matrix and hosts Inter-college quiz competitions in the institute campus. The club also works in close collaboration with the quizzing clubs from IIM and HNLU, which has resulted in increasing its popularity and reach outside the campus.

The club has proved to be a breeding ground for enthusiastic quizzers who proved their mettle by winning National level quizzing events like TATA Crucible, CSLQ and Raipur City Finals. Also, it has a fan following of 5.4K+ members on its Facebook group.

EVENT DESCRIPTION:

- **Quit India Movement Quiz** The club celebrated 75 years of Quit India Movement with this first of its kind quiz. This was not just a quiz but a golden opportunity for the winners to stand a chance to meet Prime Minister Narendra Modi. Remembering such movements gives us strength as a nation and it is important for the youth to know about historical events.

- **Engineer's Day Quiz**

On the occasion of Engineer's Day, a two day EDay Quiz was conducted by our club in association with Sanskriti- the Cultural Committee. We celebrated our own day with fun, facts and memories of all-time engineers.



- **Techonomic Quotient**

Techonomic Quotient, popularly called 'ttq' is one of the biggest and most successful event organized by Interact Club. This year it proudly came up with its 5th edition. This event is conducted during Aavartan, Tech fest of NIT Raipur with cash prizes worth 10k and more. It was a two day event comprising of Prelims and Finals on the respective days.

- **National Pollution Prevention Day Quiz**

This amazing quiz was conducted in collaboration with Quizzing Club of IIM Raipur in association with Chhattisgarh Environment Conservation Board. The Quiz Master was one and only 'Somnath Chanda' Sir. The theme of the quiz was 'Environment and related topics' with cash prizes worth 34k.

IMPACT ON STUDENTS:

The club focuses on enlightenment through interaction. It gives students a chance to test their knowledge in various domains. The questions are so framed to make them think laterally and explore their own potential through club's events.

The club has enhanced and improved the interaction between students of varied streams which has led to a flamboyant quizzing community in the college. Efforts

for the same are made every single day. The club conducts QOTD(question of the day) everyday at 10 PM on the official Facebook group to encourage even non-quizzers to try their hands on quizzing and help him/her take a step forward each day. Also, the footfall is approximately 300-400 and it is getting larger day by day and making us proud.

NOTABLE ACHIEVEMENTS :

NIT, Raipur students regularly participate and excel in inter-college quizzes. There are many notable achievements in quizzing by our college. This year students from our college participated in TATA Crucible –the business quiz. Abhik Sarkar and Pratyush Brahma grabbed the 2nd position. Also, the final playing 6 teams in the contest included 2 teams from NITRR. The students of our college also accomplished success at CSLQ, IIM Raipur quiz. Ayushman Dubey and Vaibhav Chopra came 2nd and Faisal Khan and Chinmay Cholkar came 3rd. Sagar Raja(now a pass out) and Faisal Khan got the 1st position in a quiz conducted by IIIT, Naya Raipur.

The journey of such wonderful achievements will keep on brightening and the path to success will be chased with the same amount of dedication and effort to see more triumphs.



The Literary Committee

Literati was formed in the year 2009. Early in the day it didn't have any fancy name attached to itself. However, it was in 2014 that the name "Literati" was given to it. Since, 2009 it is in pursuit to provide a platform to the literature enthusiasts of our college. Through various events conducted year round, the committee tries to achieve the aforementioned mission. As formal as the committee may sound, we've always had some of the most creative and intelligent people working for us & as a result of that every year we come up with some fun events too which aim to blend the lust for literature with impish thrills.

The main highlight apart from Eclectika is the vigilance

week celebration that we conduct every year. In this, PSU'S collaborates with us and thus we are able to organize an array of events to salute our protectors and spread awareness among students. Coming to Eclectika, every year we mark our presence in central India's biggest cultural fest by organizing some of the most exotic events that have both the intellectuals and the fun-seekers as its target audience. The primary objective of the committee is to nourish the literary talent we have in the college and at the same time introduce newbies to the breathtaking world of literature.





Media Cell-NITRR



Media cell of NIT covers all the happenings of NIT throughout the year. It sincerely covered all the fests, seminars, workshops, interviews and events in 2015 and establish a link between the institute and commoners. Both English and hindi reports were made and photographs of the events were also relevantly attached. Media cell consisted of a team of 13 members in the year 2015. The team started its work with the Go Green Ganesha, an event of We care- The Green Movement, NITRR which was an open participation for several schools and other collages too. The other events of the club; Bag O Mania, Best Out Of Waste, Painting competition etc conducted under Swachhta Pakhwada were also covered sincerely that aimed to spread awareness among the people our need and responsibility to keep the surroundings clean. The team also took an interview of the Green Committee projecting out their motto, discussing their recent steps and enquiring about their further plans. The team also covered the E- Summit, a two day fest on entrepreneurship organised by the Entrepreneurship Cell, NITRR. From the speaker sessions to B-Quiz everything was covered. After this the team also enthusiastically covered the several events organised during Aavartan, The Technical Fest NITRR. Starting from the inauguration ceremony to the games like Laser Tag and other competitions like Wall Street, Robo War, Rural India etc; the technical events like diabolic dumper the adventurous events and the great Tech Show and Bike stunt all were covered minutely. Vigyaan, The national science exhibition was also thoroughly covered where we saw active participants from other places like Chennai etc and more than hundreds of collages. The Musical Night, Shruti conducted by the Cultural Committee, NITRR was also covered thoroughly where the participants mesmerised the audience with their marvellous voice and beats. The other events of the committee like the Traditional Day, Mehendi Art etc which were a part of the pre Diwali celebration were also captured. Along with this Nukkad performed by the Dramatics Club, NITRR and the Cultural Committee and other events conducted on the Engineers' Day; the fun events, NITRR ; essay writing, treasure hunt etc conducted by Literati- The Literary Committee, NITRR; the several workshops conducted by the Robotics club, Training and Placement team of our college (TEQIP) were covered by the media team. Media covered a workshop "Ansys and staad" conducted by technocracy team. Then covered a seminar on social cause awareness against cybercrime. Media covered a workshop on sixth sene robotics-vision Botix conducted by technocracy team. Team also covered the 2 day's workshop

on Internet of things conducted by Blue Baniyan association. In 2016 media cell consisted of a team of 14. The team started its work with the Go Green Ganesha, an event of We care- The Green Movement, NITRR which was an open participation for several schools and other collages too. The other events of the club; Bag O Mania, Best Out Of Waste, Painting competition etc conducted under Swachhta Pakhwada were also covered sincerely that aimed to spread awareness among the people our need and responsibility to keep the surroundings clean. The team also took an interview of the Green Committee projecting out their motto, discussing their recent steps and enquiring about their further plans. The team also covered the E- Summit, a two day fest on entrepreneurship organised by the Entrepreneurship Cell, NITRR. From the speaker sessions to B-Quiz everything was covered. A short interview of Mr. Praveen Sambani (Advisory Member, Ernst & Young LLP, CHIPS) was also taken. After this the team also enthusiastically covered the several events organised during Aavartan, The Technical Fest NITRR. Starting from the inauguration ceremony to the games like Laser Tag and other competitions like Wall Street, Robo War, Rural India etc; the technical events like diabolic dumper the adventurous events and the great Tech Show and Bike stunt all were covered minutely. VigyaanThe national science exhibition was also thoroughly covered where we saw active participants from other places like Chennai etc and more than hundreds of collages. The Musical Night, Shruti conducted by the Cultural Committee, NITRR was also covered thoroughly where the participants mesmerised the audience with their marvellous voice and beats. The other events of the committee like the Traditional Day, Mehendi Art etc which were a part of the pre Diwali celebration were also captured. Along with this Nukkad performed by the Dramatics Club, NITRR and the Cultural Committee and other events conducted on the Engineers' Day; the fun events and DJ evening conducted by ShauryaThe Sports Committee, NITRR ; essay writing, treasure hunt etc conducted by Literati- The Literary Committee, NITRR; the several workshops conducted by the Robotics club, Training and Placement team of our college (TEQIP) and the Garba Night organised by the newly established dance club Nrityam were also covered. The team has sincerely tried to capture each and every event being organised in the college and establish a bridge between the institute and the outer world and still it is covering the events as they come up.



Nrityam

The Dance Club NIT Raipur

Ever since its foundation on 21st September 2016, Nrityam – the official dance club of the college has been functioning very actively to increase the level of Dance inside as well as outside the college. Under the guidance of the faculty incharge, Dr. Moksha Singh, the club is soaring higher with each achievement.

Objective : Nrityam as a club has been formed with an objective to promote dance as an art at National and International level and build our college's reputation in that domain besides others. The club wants to promote budding dancers to expose them to best stages so they can instill confidence and improve their personality with dance. We want students to take dance as a break from regular routines to give in their minds and groove to the beats and feel refreshed after a hectic mind day.

EVENTS CONDUCTED BY NRITYAM

The club organises the "Grand Garba Eve" every year since 2016 in the campus which is one of the most awaited events of the session. It was celebrated on

22nd September this year. The college campus was adorned with earthen lamps, fairy lights and Rangoli. The students as well as the faculties and their families participated very actively in the event. It is celebrated traditionally before the mid-semester break.

Apart from the "Grand Garba Eve", Nrityam organised three major dancing events during Eclectiks'17 namely Underground battle, Eclectika Dancing Star and Nrityangana. The club also celebrates "International Dance Day" every year.

Team Nrityam has also won various competitions inside and outside the college from the event "Footwork" at Equinox 7, IIM Raipur and "Dance Fever" at Technovate, IIIT Raipur to "Nrityangana" at NIT Raipur. It also participated in the event "Sanskriti" at Mood Indigo'16, IIT Bombay. Team Head Coordinators Ratan Das and Anupama Bishnawat were Selected for National Level Dance Camp "UIDC" among 1 lac dancers. The camp was free and all the facilities arranged by UIDC camp itself. They were taught by Bollywood Choreographers Terence

Team Head Coordinators Ratan Das and Anupama Bishnawat were Selected for National Level Dance Camp "UIDC" among 1 lac dancers. The camp was free and all the facilities arranged by UIDC camp itself. They were taught by Bollywood Choreographers Terence Lewis, Remo D'Souza, Prince gupta, Alisha Singh, Shyam Yadav etc DID, IGT Fame stars. Anupama Bishnawat selected for the 2nd round of CG's

first reality show Dance Chhattisgarh Dance. She got 3rd prize at national dance competition "Impulse" Nrityam is also known for the amazing dance performances presented by the members at various occasions like Independence Day, Republic Day, Aavartan, Cultural Night etc. The team is constantly working hard for the upcoming competitions and events in the future and it definitely has a long way to go.



Team Nrityam 2016-2017

राजभाषा प्रभाग

हिन्दी को भारत की राजभाषा के रूप में 14 सितम्बर सन् 1949 को स्वीकार किया गया। इसके बाद संविधान में अनुच्छेद 343 से 351 तक राजभाषा के सम्बन्ध में व्यवस्था की गयी। इसकी स्मृति को ताजा रखने के लिये 14 सितम्बर का दिन प्रतिवर्ष हिन्दी दिवस के रूप में मनाया जाता है।

धारा 343 (1) के अनुसार भारतीय संघ की राजभाषा हिन्दी एवं लिपि देवनागरी है। हिन्दी को राजभाषा का सम्मान कृपापूर्वक नहीं दिया गया। बल्कि यह उसका अधिकार है। यह अधिक विस्तार में जाने की आवश्यकता नहीं है। केवल राष्ट्रपिता महात्मा गांधी द्वारा बताये गये निम्नलिखित लक्षणों पर दृष्टि डाल लेना ही पर्याप्त रहेगा जो उन्होंने एक राजभाषा के लिए बताये थे।

- (1) अमलदारों के लिए वह भाषा सरल होनी चाहिए।
- (2) उस भाषा के द्वारा भारतवर्ष का आपसी धार्मिक, आर्थिक और राजनीतिक व्यवहार हो सकना चाहिए।
- (3) यह जरूरी है कि भारतवर्ष के बहुत से लोग उस भाषा को बोलते हों।
- (4) राष्ट्र के लिए वह भाषा आसान होनी चाहिए।
- (5) उस भाषा का विचार करते समय किसी क्षणिक या अल्प स्थायी स्थिति पर जोर नहीं देना चाहिए।

ये सारे गुण हिन्दी भाषा पर खरी उतरती है। भारतीय संविधान में हिन्दी के अतिरिक्त अन्य 21 भाषाओं को राजभाषा स्वीकार किया गया है।

राजभाषा समिति -

संस्थान में भी राजभाषा समिति हिन्दी दिवस के उपलक्ष्य में प्रतिवर्ष पंद्रह दिवसीय हिंदी पखवाड़ा का आयोजन करती है। जिसके अंतर्गत समिति के सदस्य हिन्दी को बढ़ावा देने पर संस्थान के छात्रों में हिन्दी भाषा के प्रति प्रेम एवं जागरूकता फैलाने का कार्य करते हैं।

राजभाषा समिति एन.आईटी रायपुर की प्रभारी डी.एस.आर. अग्रवाल हैं। समिति में कुल 55 सदस्य हैं। हिन्दी पखवाड़ा के अंतर्गत राजभाषा नुक्कड़ नाटक, तात्कालिक भाषण, लेखन प्रतियोगिता, चर्चा, विवाद, लोकगायन, प्रतियोगिता, लेखन का आयोजन करती है। साथ ही प्रतियोगिता एवं चर्चा जैसे कार्यक्रम भी आयोजित करती है जिसमें कुल तीन चरण होते हैं।

इसके साथ ही संस्थान के प्राध्यापकों, स्टाफ, कर्मचारियों के लिए भी प्रतियोगिता का आयोजन किया जाता है। हिंदी पखवाड़ा के अतिरिक्त राजभाषा समिति मातृभाषा दिवस का भी आयोजन करती है। समिति प्रतिवर्ष वार्षिक पत्रिका 'अस्मिता' प्रकाशित करती है जिसमें संस्थान में हुए सभी कार्यक्रमों का संक्षिप्त विवरण के साथ, साथ विचार्यों एवं प्राध्यापकों के द्वारा भेजी गयी स्तुति पत्रिकाएँ होती हैं।



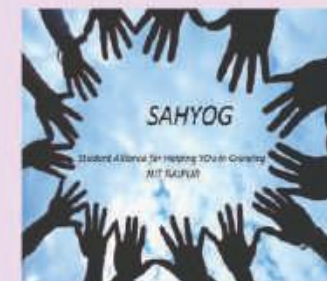
राजभाषा समिति के सदस्य

आज भी हिन्दी को वो अधिकार नहीं मिल पाए है जिसकी वो अधिकारिणी है। हिन्दी को राजभाषा का दर्जा तो मिल चुका है परंतु हिन्दी की उम्र अनवरत हो रही है। समिति के सदस्य हिन्दी के प्रति जागरूकता फैलाने हेतु प्रतिबद्ध हैं और आशा करते हैं की हिन्दी भाषा को वो अधिकार मिले जो गिनका विलोपन हो रहा है।

Sahyog The Mentorship Club

"Alone we can do so little, together we can do so much"

Sahyog-The Mentorship Club is a group of dedicated students and responsible faculty whose supreme objective is to provide constructive and positive interaction, guidance to fresh students by senior students and acts as the thread between student and counseling cell. In this program we provide each student with a supportive environment that allows a smooth adjustment from school to college life both academically and socially. The club helps students with providing guidance and important information and more importantly creates a healthy family environment. Sahyog is a student body of NIT Raipur working towards promotion of healthy student culture and addressing key social initiatives. The club organizes various events, seminars and other activities which help in increasing interaction and develops knowledge and understanding regarding all the different aspects of our college. Sahyog is cardinally dedicated for mentoring fresh students by providing personal and professional support to every individual. The club helps to reduce the hesitation and make new students feel more comfortable in new environment.



The club organizes Blood Donation Camp in association with Red Cross Society and has been awarded for the same. Faculty as well students actively participates in this great step towards humanity. This

The club organizes Blood Donation Camp in association with Red Cross Society and has been awarded for the same. Faculty as well students actively participates in this great step towards humanity. This

whole program is truly dedicated for college welfare and so for students. As being the part of college fraternity the club also has certain responsibilities, In that humanity is above all.

Green Library is a new step by Sahyog-The Mentorship Club and We Care-The Green Movement, Which provides free books and study materials to students. With the motive of "Sharing is caring and we care for each other", the club makes sure the students get benefited from every available resource in the college.

The club believes that focused vision in key for every success. Being such visionary the club has been helping students from very beginning of their carrier. The carrier counseling is such prime initiative which has been proven best for fresh students to choose their carrier. The club also helps student academically by providing them extra classes. Under experienced seniors as their mentor, students have been performing very well in their exams. The club organizes group discussion and guest talks which have been proving hugely beneficial to students to gain confidence on interviews.



Shaurya

Zeal is like a determined image of relentless flying in the confident eyes of an infancy bird. You can bind it for a moment but certainly it can never be tied into shackles for a lifetime. SHAURYA-Sports Committee NIT Raipur is a similar story of unending zeal and sports enthusiasm pulsating in the veins of sophomores of the 2010-14 batch which leads to its formation. Students with proven technical credentials unite with a common aim to nurture the sportsman inside



every one of us and to give a platform where quality of sportsmanship can be woven in each one of us.

Team Shaurya organises its sports fest "SAMAR" every year SAMAR was first organised in the year 2008 and has growing into a sporting extravaganza ever



since.SAMAR consists of 13 inter branch games and 6 inter college games. The events organised by shaurya kick-started with a marathon on August 15,2016 after that on the closing day of tech-fest the theme and teaser of SAMAR 2017 was launched the theme "UNNATI-Women empowerment and self-defence through sports" was supported by MARD-Men Against Rape and Discrimination in its noble cause onSeptember 15,2016 on the occasion of Engineers' day many fun events like dodge ball and tug of war were organised.



Samar

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Engineers' day many fun events like dodge ball and tug of war were organised. The night before SAMAR



witnessed the suzuki carnival which featured enthralling bicycle and motorbike stunts Samar 2017 hosted cricket hockey football for boys and Kabaddi,Kho-Kho, Badminton, Chess, Carrom, Basketball, Volleyball, Handball, Table-Tennis, Athletics for both boys and girls. IT and Electrical emerged as overall winners in the boys group and Civil, Electronics and Telecommunication and Mechanical in the girls group. Avi Jain was adjudged the best athlete (boys) and Sujata Dhar best athlete (girl). Olympic medallist Indian Wrestler Geeta Phogat graced the closing ceremony of samar

2017.NIT Raipur has also outshone its counterparts at the all India Inter NIT meets for various sports. Yoga team of NIT Raipur made a clean sweep by winning everything there was to win in the event. The girls and boys team bagged gold medal, individual gold medals for girls and boys dominating the event.Kho-Kho boys team won the goal medal. In athletics girls team of NIT Raipur won 1 Gold 2 Silver and 1 Bronze medal and boys team won one bronze medal in power lifting. This year the theme for SAMAR 2018 is finalised as EMERGING CHHATTISGARH which aims at bringing the



rich culture and heritage of our state to limelight. Shaurya has also been organising various events on Facebook to create awareness among people about various social issues faced by the society. On October 31st Shaurya organised "RUN FOR UNITY" marathon.on the occasion of national sports day friendly football basketball and volleyball matches were played.

The main attraction SAMAR 2018 is expected to be an exhilarating experience and one to surely not miss.



Sanskriti

"When you are up for a strong purpose then hard work isn't an option but a necessity." This quote quite suits the zealous and enthusiastic Cultural Committee of NIT Raipur. The exquisiteness of our culture is beautifully presented in a creative manner every year by our very own SANSKRITI-the Cultural Committee as we know it. The committee leads its supremely dedicated and diligent team in organizing the cultural fest along with various other events throughout the year. Every year the committee celebrates Independence Day and Republic Day with the feeling of patriotism and nationalism, provides a stress free aura to the talented engineers of our college on engineers day, makes the college traditional for a day and celebrates Diwali away from home in the form of Pre Diwali Celebrations, conducts various cultural workshops and brings out the hidden talents in the students and finally organises the much awaited cultural fest of our college, ECLECTIKA.



ECLECTIKA:

Eclectika- a word comprising all the strings needed for the music of innovation, conception and success, a platform to foster the nursery of talents and choosing the best, a sense of unity among the individuals.

The eclectic journey began in 2007, but now we have seen artists such as Mohit Chauhan, Sachin Jigar and many more names to follow. Eclectika hosts more than 50 events attracting students from hundreds of colleges with many mega events namely Art Exhibition, Avirbhaav, Clash Of Choreos, Nukkad Natak and Allure.

The last day of the fest is the main Cultnite which gives the students opportunity to showcase their hidden talents in the form of dance, singing, poetry etc. The fest fills the people with awe and admiration by bringing something new every year.



Eclectika



Eclectika, the cultural festival of NIT Raipur is widely renowned as the largest fest in central India. With a participation roster exceeding over 1 hundred colleges across the academic

days are Goonj(The Nukkad Natak), Avirbhav(Battle of Bands), Allure(Ethnic Fashion show), Clash Of Choreos(Group Dance Competition), Eclectika Idol, Kalopsia(The Art Exhibition). Experiencing a participation from over 50 colleges and crowd exceeding 2000, these megaevents are being judged



demographic of India, Eclectika is a glorious rendition of the ideals of innovation, conception and determination to achieve high heights of success, and is a phenomenal platform to nurture and inspire talent, while uniting

a wide and diverse participation pool under a single banner. It all started in 2007 with an idea, an idea to provide a platform to foster the nursery of talent. And now we have seen artists such as Mohit Chauhan, Sachin, Jigar and many more names to follow. Eclectika has been a home to more than 50 different events during the three days, main attraction being our 6 mega events, EDM nite, pronite and the cultnite.

MEGAEVENTS:

The various megaevents organised during the three

by celebrity judges naming a few, Manan Sachdeva, Arvind Gaur, Pramod Sahu.

EDM NITE:

Introduced only last year, with a footfall of almost 8000 this was a huge success. The college was thrilled by the presence of DJ Sartek and Shilpi Sharma.



PRONITE:

A night dedicated to music, hosting some of the talented musical sensations of the country, this is the center of attraction of Eclectika. Celebrities who have visited our fest are Sachin Jigar, Mohit Chauhan, Lagori Band, Underground authority, Life- The Band, Bandish.



CULTNITE:

This night is dedicated entirely to showcasing the talent of our college. It's a vivid collection of performances of music and dance.

Technocracy

The technocracy is the Student's technical committee of NIT Raipur. The technical journey began in 2007 with the aim of inspiring technology, innovation and scientific thinking. At present, it consists of 100

The next step the team took was organizing Central-India's largest Techfest-AAVARTAN'16. AAVARTAN is a celebration of technology. It is a platform which technocracy offers for all the digital minds of the

country, to quench their thirst towards technology. The theme for this was "Insight into Space". Aavartan'16 had events not only in the technical domain but also in fun, managerial and robotics.

There were 5 major attractions of AAVARTAN'16. It includes – Adventure Zone, Bike Stunt Show, Air Show, Laser Tag and 3D Tech Show. AAVARTAN'16 was a huge success. It also organized National level Science Exhibition "VIGYAAN" which gathered huge participation. It aims at finding out solutions to real life problems using the technical minds.



enthusiastic members and 100 volunteers. Technocracy rely upon the perception of "Together everyone achieves more". And with this thought it is growing day by day.

The team Technocracy started off its work for the session with a knowledge boosting "Vision Botix (Six Sense) Workshop". The workshop dealt with six sense technologies and experienced huge participation. After which the students were capable of handling autonomous robots. After this, came the Engineers' day. Multiple events were held to generate the spark of innovativity like Rush Hour, Mirror Play, Logo Quiz and many more.



The team sees itself responsible for conducting new events in the college. For the first time in Chhattisgarh Technocracy in association with Aero Modelling Club IIT presented a workshop on Radio-Controlled Aircraft Modeling to introduce Aero Modeling Technologies to the students of NIT Raipur.

The committee's execution of marvelous spectacle called AAVARTAN was incredible. We also succeeded in bringing our initiative "Awareness on Cyber Crime", to the forefront. In coming years, The technocracy will be improving its imagination and implementation to ignite more ideas in young minds.



THE ENTREPRENEURSHIP CELL



"As we look ahead into the next century, leaders would be those who empower others", something that Bill Gates said and actually followed throughout his life while he worked for the growth of entrepreneurial spirit across the globe. Innovation distinguishes between a leader and a follower. The same is true with E-Cell, NIT Raipur. The Entrepreneurship Cell, NIT Raipur is a FORUM for the aspiring young minds who wish to pursue entrepreneurship and reach the pinnacle of glory. On trek to the zenith of glory, we hustle beyond the chaos of the ordinary to reach out to the call of the entrepreneurs of tomorrow. The cell aims and works on manifesting the essence of entrepreneurship in the convoluting gray matters of the young force coming up. This delegation gives wings to ideas and support in the form of investors and seed funding along with mentorship guidance to the pioneering and budding entrepreneurs. The E-cell visualizes a society that

grows and gets better and modernly equipped with new changes. This cell aims at promoting the startup culture, giving ground to the unknown and the shearing force to the budding entrepreneurs who have it in them to become the greatest pioneers of this century. From its inception E-Cell aims at giving the propelling force to the budding entrepreneurs and direction along with expert guidance to the startup ideas at ground level. The events ranging from Ignition to Expert Lecture Series to Cricnometrica are the best bets for all the young minds to know about entrepreneurship through various ways.

ENTREPRENEURSHIP SUMMIT 2016



E-Summit is the flagship event of Entrepreneurship Cell, NIT Raipur. It is a consortium of India's leading Entrepreneurs and Speakers. It is a complete blend of the young, nourishing entrepreneurial minds with the



dignities in their respective fields. The event aims at bringing the great entrepreneurial minds from across the country under one roof. The session of 2k15 brought forth guest lectures by talented entrepreneurs who carved a niche for their blooming ideas in the form of startups in the cut-throat competition business world. Loaded with undeterred enthusiasm, Prateek Sethi engaged an audience of more than 400 eager young minds. Transporting back the students into their teens, he shared his experience with "Crash" and subsequent formulation of Trip Creative Services. The youngest CEOs of India, Shravan and Sanjay Kumaran took upon the stage further, lifting up the spirits of audience with quick wit, humour and easy demeanor. The teenagers won hearts and appreciation as they spoke about their app development "Go Dimensions". Anirudh Sharma, an MIT graduate left everyone in awe as he spoke about Ducere Technologies and his contribution in creating an innovation ecosystem in India. His product "LeChal" (electronic shoes for the visually impaired) is a perfect example of innovation blended with creativity.

In 2015, E-Cell in collaboration with Medium, Small and Micro Enterprise conducted three workshops to promote entrepreneurship by providing all the necessary information one needs to keep in mind before entering the world of start-ups. The most recent one, conducted on April 2016, was an informative session with workshop on "Detail Project Report". Apart from this, E-Cell's very own blog, Entraspire, publish the hot and trending news of the entrepreneurial world. It talks about amazing world of entrepreneurship, about the latest reforms and provides the insights necessary for a budding entrepreneur.

Ignition-The B-plan competition, is introducing the thrilling journey of start-ups. Right from the start of pitching the idea to investment, the pressure and excitement is evident, but not enough to lessen the passion of being an entrepreneur. This year, E-Cell invites all the startups from all around India to exhibit themselves, talk about their journey and their future. The Start-up camp is devoted for this purpose for the well being and a healthy exchange of great ideas. It not only provides an opportunity for students to interact,

but also to grab impressive internships.

E-Summit is going to be bigger, better and something never done before. This year E-Cell invites the thriving entrepreneur from all across the country, people who left their mark on the market and achieved what others can only imagine. Ambition is the steam that drives men forward on the road to success if only he has the engine to drive it.



IGNITION-THE B-MODEL COMPETITION

Ignition- the B-Model Competition is another event under the E-Cell banner where the students and early age startups are given a platform to showcase their business models and know about the surviving businesses and startups and what are the major factors that are necessary for a startup to grow and survive in the market. Ignition is a two month long competition which has seven phases.

Registration phase is followed by the workshop round where eminent people equipped with the knowledge about business models tell the participants the crux of writing a business model draft. After this an abstract



about the business idea is submitted followed by the shortlisting which is further followed by the presentation round. This is followed by the mentorship round after which candidates give the final presentation.

The main objective of E-Cell behind this Business Model Competition is to upscale the startup scenario in and around Chhattisgarh. And Ignition-The B-Model Competition is that platform for all the budding



entrepreneurs out there who want to make it big.

EXPERT LECTURE SERIES

Highly beneficial expert lecture series and other efforts in the field by the Entrepreneurship Cell makes it a point



to ease out the ambiguity people have about startups. The event is conducted so all students department wise can know the important crux required to excel in the pursuit of entrepreneurship. From speakers like Abhinna Suresh Khare, Associate Vice-President at Travel Triangle; Akshay Singhal, C.E.O., Log 9 Materials, Sumant Bhutoria, CEO, Alfatek Systems and many more. Speakers from diversified fields will speak about who can build a startup, the basic fundamentals to work on while proposing an idea and the mechanism required to seed fund your business model.

The E-Cell makes sure that the students get enough exposure in the field of entrepreneurship by interacting with high class mentors and people who have proved their mettle in this field. The speaker sessions mainly,

witnessed immortal plenaries from entrepreneurs and renowned personalities like the tech lead of Direct-I,



Anup Kalbalia; head of NASSCOM 10000 startups, Ravi Ranjan and the list goes on.

DAANUTSAV

DaanUtsav (earlier called the Joy of Giving Week) (DIL KI SUNO, KUCH KARO with Goonj's 100,000 Acts of Giving) is India's largest festival of giving. Launched in 2009, the festival is celebrated every year, in the week including Gandhi Jayanti, i.e. October 2nd-8th, and brings together Indians from all walks of life, to celebrate "giving". From auto-rickshaw drivers to CEOs, school children to celebrities, homemakers to opinion leaders and media personnel, millions of people come together during this week to give their time, money, resources, or skills back to society. E-Cell, NIT Raipur conducted DaanUtsav 2016 in & around the campus of NIT Raipur to support the social cause, in association with Goonj, Raipur.

This was done under:

Goonj campaign – '100,000 Acts of Giving' in DaanUtsav talks about giving 100,000 Family Packs for rural families struggling for the basics in the far flung villages of India.



It is a simple act of empathy which inculcates the joy of giving, getting everyone of us to look into own material in a positive constructive way.

CRICNOMETRICA

Cricnometrica, another event which gives a platform to



the cricket lovers and the students to check their cricket knowledge through different stages of the event. After completion of first and second round which consist of Aptitude test and Audio Visual Quiz respectively, the third round takes place in which Bidding of teams and players takes place for which virtual money is given. So through this round participants get to learn about Business management and marketing skills. Also as the participants need to make a perfect team by taking players in formidable price according to team requirements so they also get to learn Money management techniques. All the above Qualities are a must for any Entrepreneur who wants to succeed in marketplace.

WALLSTREET

Wall Street is a virtual and live game that will give the students an opportunity to see the transgressions of the market first hand. While creating a virtual stock market and providing them with virtual stocks, this game in turn allows students to learn to build up from the least

and how to become a giant in the world of changing trends. This will be a daily event with a daily winner. Person on the top of the share market with the largest number of shares in value goes home as the winner of the day. An event that develops decision making skills wallstreet is very helpful in learning resource management skills. An initial amount to trade with the stocks followed by some buying and selling eventually changes the profit margins of participants upon which winner is found. An influential event to learn marketing strategies, wallstreet is the one to bet for. Remember, if opportunity doesn't knock, build a door. If taking risks is your passion, make it a habit. Hustle beyond the ordinary to rise above the exceptional. Dream it and live it because entrepreneurship is not just about ideas, it is not just about taking risks; it is about making it big, it is about lifting yourself when tides are against you, it is not being a dreamer but being a doer, it is not about words, it is about actions, it is not about playing safe but about playing smart. So live, dream and make entrepreneurship a habit and E-Cell is there to take your side in this enthralling journey.



TEDx

TED refers to the global set of conferences run by the private non-profit organisation, Sapling Foundation, under the slogan "Ideas worth Spreading". TED (Technology, Entertainment and Design) is an organisation which fosters the spread of great ideas. It aims to provide a platform for thinkers, visionaries and teachers, so that people around the globe can gain a better understanding of the biggest issues faced by the world and feed a desire to help create a better future.

TEDx are independent TED-like events, which can be organised by any individual who obtains a free license from TED, agreeing to follow certain principles. Created in the spirit "Ideas worth spreading", TEDx is a program of local, self-organized events that bring people together to share and spark deep discussion and connection in a small group.

TEDxNITRaipur is an independently organized TED event and its pilot edition spread its wings on 26th March, 2017 at Architecture Auditorium, NIT Raipur which had its theme as **Explore, Experiment, Evolve**. TEDxNITRaipur aimed at bringing experts from diverse walks of life under one roof to strike engaging talks that could invoke new ideas. We at TEDxNITRaipur believe that the greatest force in the world is a powerful idea. So it was an effort by the students to bring together minds to give talks that are idea-focused to cultivate learning and marvel – and provoke and promote conversations that inspire and motivate.

We hosted six eminent speakers who delivered powerful talks to ignite the hidden potentials of students. The exciting line-up of our speakers was the living proof of TEDxNITRaipur's vision- Explore, Experiment, Evolve. Our dynamic speakers included-

1. Dr. Manisha Yogesh Khaladkar

She is a well-known name connected to the launch of pico satellite 'SWAYAM' by ISRO.

2. Mr. Nishant Patel

Former pro-gamer turned commentator and entrepreneur, Nishant is the first founding member of AFK Gaming and has spearheaded its creation and growth into a premiere Indian e-sports content company.

3. Ms. Preyoshi Bhattacharya

She is an **Image enhancer** and has worked as a Creative Head on television shows with some of the leading production houses.

4. Mr. Shashank Vaishnav

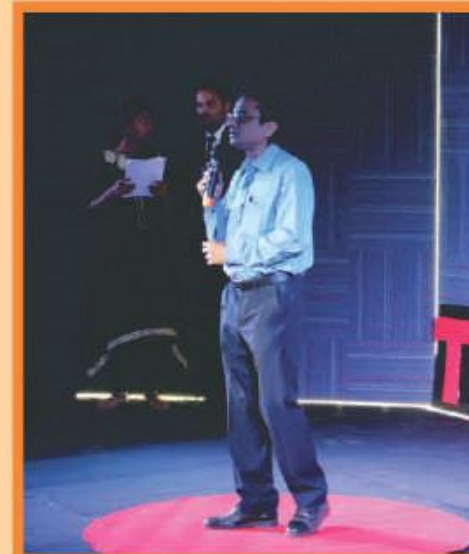
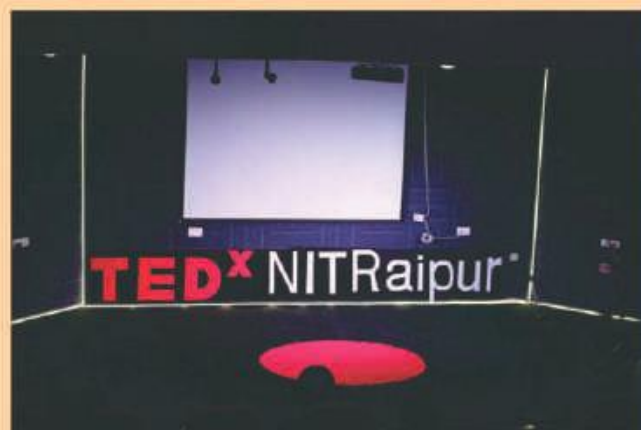
He is the co-founder & CTO at WittyFeed.

5. Mr. Hardik Dave

He is the founder and director of Uniglobe Consulting Inc. He is also the founder of "No Sir No Madam", a Non-Profit Organization that aims to remove the Sir/Madam culture in workplace.

6. Mr. Siddharth Mehta

He is the co-founder of the highest rated knowledge app 'Knappily' which intends to cater to the knowledge-hungry but time-starved people and takes them from little or zero knowledge to a well-rounded view of a topic with their app.



DEPARTMENT ACTIVITIES



2016-17

Departments

Electrical Engg.

Electrical Engineering Association (EEA) has been constantly working in providing students with guidance and expertise by organizing various events throughout the year for the benefit of the students. EEA has organized not only various technical events and expert talks but also conducted sport and cultural fest for the overall development of the students.

The session began, with much devotion and compassion towards the hard work and patience of our able professor, for the celebration of teachers' day. Guest talks from experts of different fields, having a thorough understanding of industries were conducted for the students.

Expert talk on Industrial Programmable Controller was organized where the main speaker was Mr.R.K. Vatsa, (BE-Electrical, IIT Roorkee, M.Tech, retired as DGM, Rourkela Steel Plant, SAIL).

Another expert lecture was organized in collaboration with IEEE on Engineering Graduates and Employability, with the key speaker being Mr.Arunesh Hyde(Ex head Industrial Engineering, TATA Refractories Ltd.; Senior consultant API Ispat & Powertech; Director, Ansh Resources Pvt Ltd.)

Focusing on the important aspects of recruitment, value addition and team spirit, these talks helped students to broaden their horizon and gain knowledge about industries and the corporate world.

EEA has always been enthusiastic about helping students think analytically and outsmart others in technical knowledge. In this interest, Ardentia, the technical fest was organized with various events, the main ones including, Caliber(quiz competition), Treasure Hunt, Circuit Maker etc.; providing students with a suitable platform to churn their minds and build a logical aptitude.

Gaining technical skills and knowledge is important, but the journey through college also needs to be fun. EEA organized Arena, the sports fest in the month of March 2016. Games like basketball, football, khokho, volleyball, cricket etc., observed large participation by students of all semesters. Sport is always a supportive of mental wellbeing and through Arena EEA has always tried to promote enthusiasm towards sports in the department.



Information Technology

Department of Information Technology conducted a two days fest for all the coders across the India named Codeutsava 1.0. The fest provided a great opportunity for all the geeks to learn and feel the competition. It had guest lectures, competitions and many more surprises for programmers. Codeutsava is not merely a two-day event. It is something which spans all round the year for improvising the geeks all round. A winter camp of one week was organized, to teach the students some of the important topics. It was first in the series of events conducted as a prelude to Codeutsava. Interactive sessions were conducted to teach and guide the students. The next was an online programming competition "Breaking Code" which saw huge success by having 1000+ registrations. It also organized an online blogging competition on the topic "Raipur is Beautiful". The mega event of Codeutsava was "28-hour Hackathon". It was the first time when a Hackathon was organized in the college. Students had to build an application in 28 hours on the

given themes. 40 teams were shortlisted which participated in the final Hackathon held at NIT Raipur. Apart from this the guest lecturers included, "introduction to micropython", "Web Development Practices", "Introduction to Machine Learning", "Information Retrieval and Algorithms", "Python", "Linux Kernel" and "Competitive Programming and Network Flow". The Chief Guest was Dr. Manish Gupta, Co-Founder and CEO of Yen4Ken, an educational technology startup. It was a grand success. It was a mega computer science event organized of central India. The department will be back with CodeUtsava 2.0 soon.



CodeUtsava 1.0

William Shakespeare - 'If there is a good will, there is great way.'

Driven by the above quote, The Department of Information Technology, NIT Raipur conducted CodeUtsava 1.0, Central India's biggest Hackathon in the first weekend of February, 2017.

The event was planned to benefit all the students. Long before its commencement, it served the former said motive and brought some new trends. Winter Camp was organised in the month of december, 2016 to boost the algorithmic and coding skills of the students. In the weekends of January, there were beginner level workshops on "Linux Kernel" by the Kernel Girl of India, Vaishali Thakkar (Kernel Engineer, Oracle), "Python Programming" by Effcon, and an online coding contest named Breaking Code for all the enthusiastic competitive programmers.

Supported by UNICEF and TEQIP, the main two day mega event was inaugurated by Dr. Manish Gupta, Co-founder and CEO of Yen4Ken Inc. (Ex-MD, Xerox India) accompanied by Dr. Sudarshan Tiwari, Director, NIT Raipur and Dr. Ajay Trakroo, Health Specialist, UNICEF. The 28 hour Hackathon focusing majorly on the Open Source Software Development was started off. Students from various colleges participated in the hackathon where they dealt with various modern day issues and ended up with intelligent technical solutions. The solutions were applauded and rewarded. All the participants of the hackathon were given free developer accounts across multiple platforms, geeky T-Shirts and other cool goodies. Simultaneously five workshops on burning topics in the field were conducted by the experts of leading companies of the industry like Mr. Vikramank Singh (Facebook India), Ms. Asmita Metrewar (Apple India), Mr. Arun Kumar Chouhan (Belzabar India). All the workshops and tech talks were free of cost.

The event served as an extraordinary experience for the participants by inculcating a sense of inspiration, innovation, interaction, and a technical euphoria.



The event was concluded by the chief guest Dr. Pradeep K. Sinha, Director, IIT Naya Raipur and Dr. Ajay Trakroo, Health Specialist, UNICEF. The winners were felicitated by the Chief Guest and other dignitaries. The winning teams were given a cash prize of Rs. 30,000, Rs. 21,000 and Rs. 15,000 respectively. In addition to these, a special cash prize of Rs. 24,000 was given by UNICEF to the winner of the team who worked on their theme. The event was successful in fulfilling its objectives but and became a trend among geeks.

CodeUtsava 1.0 provided an unparalleled platform that excavated raw, talented as well as skilled programmers and designers throughout the length and breadth of the country, shaped their creative thoughts and made a way for them to lead via trending technologies.

With the same objective and a new zeal NIT RAIPUR proudly announces CodeUtsava 2.0.





Mechanical Engg.

Mechanical Engineering Association (MEA) is the oldest and prestigious association of NIT Raipur. The association is committed to the challenging task of development of technical education and scientific temperament among enthusiastic students. It provides the opportunities to create interpret & apply knowledge in the field of mechanical engineering. The academic year 2016-17 witnessed multiple numbers of seminars, guest lectures, workshops, sports fest and the highly acclaimed research and technology fest, Aavishkar-17 organized by the association.

The academic year began with the interaction

AIR-2, 2014) conducted on 16th September, 2016. Around 300 students from all the branches and years were enlightened regarding different competitive exams like IES, GATE and UPSC. Team Technocracy in

ABOUT THE MECHANICAL ENGINEERING ASSOCIATION

Mechanical Engineering Association is the oldest and prestigious association of NIT Raipur. The association is committed to the challenging task of development of technical education and scientific temperament among enthusiastic students. We provide opportunities to create, interpret and apply knowledge in the field of mechanical engineering.

Journey to inspire, innovate and discover.



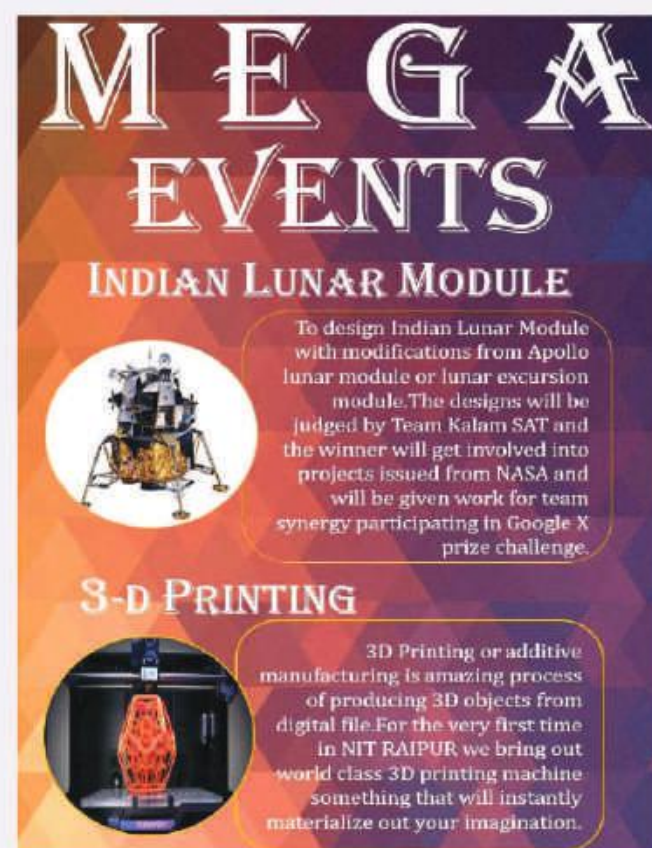
session by guest lecturer; Mr. Abhinav Trivedi (IES

association with Mechanical Engineering Association conducted a workshop on events like diabolo dumper; robo race and robo shoot on 26th September. An E-Quiz based on practical engineering applications & observations was organized on 28th Sept, 2016 that was a huge crowd puller. An Aptitude Test was conducted by AB Classes on 27th Jan, 2017 to enhance the aptitude and vocabulary skills of CAT aspirants. It was followed by a short counseling session by Mr. Abhishek Gupta (IIFT AIR-3). An expert

lecture session by Dr. Sameer Khandekar (Prof., Mech., IIT K) was organized on 1st Feb, 2017. The second edition of the Engineers' quiz, E-Quiz 2.0 was conducted on 12th Sept, 2017 which was more successful than its pilot edition in upbringing the technical interest among students.

MEA Sports Fest was organized between 21st and 28th Jan, 2017. There was a huge participation by students of all the 4 years of Mechanical Dept. in various sport activities i.e. cricket, football, chess, badminton and volleyball. Participation and Winner certificates aided in extended support and encouragement to the students.

MEA celebrated the Teachers' Day on 5th Sept, 2017 in a very decorative and interactive way by organizing many fun activities involving faculty like



MEGA EVENTS

INDIAN LUNAR MODULE

To design Indian Lunar Module with modifications from Apollo lunar module or lunar excursion module. The designs will be judged by Team Kalam SAT and the winner will get involved into projects issued from NASA and will be given work for team synergy participating in Google X prize challenge.

3-D PRINTING

3D Printing or additive manufacturing is amazing process of producing 3D objects from digital file. For the very first time in NIT RAIPUR we bring out world class 3D printing machine something that will instantly materialize out your imagination.

Guess the Music, Film Quiz, etc. The faculty and the students enjoyed a lot in this auspicious occasion.

The major and the most celebrated fest which took a lot of effort and hardwork for its success was

the pilot edition of Avishkar, India's First Research & Technological fest, as claimed by MEA. There was a simple motto of this fest – "To ameliorate the interest knowledge in science, space and engineering" which MEA managed to achieve to the best of the limits. It was a 2-day fest conducted in association with the Green Committee, NIT Raipur Motorsports, Bio-Technology Students Association, Civil Engineering Association, Mining Engineering Society, Association



SPEAKER SESSION
DIVE INTO BEAUTY OF SCIENCE

Team Kalam Sat

Kalam SAT is a Femto Satellite and is claimed to be the world's lightest satellite. It is named after former Indian president Dr. A. P. J. Abdul Kalam and was built by an Indian high school student teamed by Rifath Narook, an 18-year-old from the Tamil Nadu town of Palupattu. The high school team participated in Cubes in Space, a STEM-based education program by Iddoie Learning and ASA. As selected student competitors, the team won an opportunity to design experiments to be launched into space on a NASA rocket. Kalam SAT was launched by ASA along with several other experiments on Tanager-Orion sounding rocket on 22 June 2017 from Wallops Island Flight Facility, Virginia.

of Computer Engineers, Metallurgical Society and Chemical Association of NIT Raipur on 28th and 29th Oct, 2017. Later, Avishkar Online, with the same motto, constituted online speaker sessions.

The fest commenced with Speaker session by eminent speakers like Dr. Abhas Mitra & Dr. Arun Pati in the field of Astrophysics, Computation and Technology & Team Kalam Sat, the creator of world's lightest satellite. It was followed by many Mega events like Indian Lunar Module Design Challenge, Mini Land Rover and 3-D Printing demonstration & Fun events like Off-road Championship, Underwater Robot, and Backyard Scientist.

Metallurgical Engg.

The Metallurgical Society of NIT Raipur a.k.a MetSo is an association of the students belonging to Metallurgical Engineering Department. The association comprises of selected students who ensure the overall development of the students belonging to the Metallurgical Department and also provide an insight into the glorified field pointing out the career options and future plans to the students thus enlightening the future of a number of students who make it big in this particular field of study. MetSo organises a number of events throughout the stretch of the entire session to provide a platform for all round development. The events organised by MetSo starting from the celebration of the teachers day where a fun Bollywood quiz was organised as the faculty members indulged in a well spent afternoon amidst the presence of the members of MetSo. The next event up the sleeve was The Big Fight which was successful in ways more than one in shaping the

students in a competitive way thus polishing their verbal and reasoning skills. The event took place in three rounds:

1. Aptitude
2. Group Discussion
3. Extempore

The following spring session MetSo Utkarshan, the annual departmental fest of Metallurgical Engineering department, is also organised by MetSo. There are a number of events conducted during the fest. One main event being Paper Presentation in which student present their works in the field of Metallurgical Engineering. Along with it a lot more events were conducted. These events not only focus on technical skills but also writing and managerial skills. MetSo also organises MetSo Sports Week to promote sportsmen spirit among students. Many sports events like football, basketball, cricket, badminton etc. are organised. MetSo concentrates on overall





Mining Engineering

The Department of Mining Engg. was established in the Year 1956 with intake capacity of only 15 students. Due to increasing demand of mining engineers from coal and mineral industry, the intake capacity has now been increased to 77. At present, there are 291 undergraduate students in various semesters and 13 PhD scholars registered in the Department. The Department is equipped with state of the art modern instruments and equipments for conducting various laboratory and research work. The Department has undertaken and successfully completed number of testing and consultancy projects.

Mining Engineering Society is the oldest Student body of National Institute of Technology, Raipur which is dedicated towards establishing a positive environment of all around development in the Institute. It was started in 2011 with the aim to establish a student body with faculty collaboration which works for the betterment of all aspects of healthy Student Culture & Sound Technical Environment.

Since its inception, MES has grown into a culture within the Department of Mining Engineering. It efficiently organizes various annual events, like the Freshers' Orientation Program, Teachers' Day Celebration, and Farewell and Prize Distribution Ceremony for the respective session.

For an all round development of, and inculcating essential skills in the students, a mega-interactive notion has been initiated, and is conducted every year by the Mining Engineering Society, by the name of "MES Week". The MES Week has various Technical competitions like Quiz, Paper presentation, Case Study, etc., Literary events like Group Discussion, Debate, etc., and Sports

competitions like Cricket, Football, Basketball, Volleyball, Kabaddi, Chess, Carrom, Badminton, etc. The winners are recognized and rewarded with prizes. The Department of Mining Engineering, recognizing the need of preparing our talented students for the real world problems beforehand, has recently established a Research & Innovation Cell within the mining Engineering Society to keep the students updated with the recent developments in the industry, common problems faced, and guiding them to research new practices and methods to solve them.

The Alumni Relation Wing (Department of Mining Engineering, NIT Raipur) was initiated as a special cliques of the MES in 2016, to build and maintain robust relation between our budding and talented students, our visionary department and our auspicious alumni. The members of the MES also actively volunteer in various departmental seminars and college programs. In coming years, the MES plans to organize a National Level Mining Fest to provide a platform for students all over the country to showcase their talent in the field.

The MES is guided and overlooked by a Faculty In-Charge from our Department, and lead by a capable student representative. Dedicated final year students with clearly defined roles inspire motivated member students to execute the goals in line with the vision. The initiatives and activities are operational through funding from our very generous and supportive Department, and also through contribution from the industry. MES thrives to live up to its mission to improve technical skill, practical knowledge, soft skills, so that students of mining department excel in their field of interest.



NCC

Our Past Honorable President Dr.A.P.J.Abdul Kalam Pointed out that " Over the years the NCC has evolved into a highly disciplined youth organizations. Imbued with the spirit of patriotism and selfless service. The cadets have been making a remarkable contribution towards strengthening the nation".

Cadet means a young military student. The members of N.C.C. are trained in military discipline, a quality which is highly necessary for all. They also learn the rudiments of fighting process, so that they can be able to join our Armed Forces without any difficulty. Raipur Group unit 5CG CT



(I) COY NCC RAIPUR has been working for many years. Our motto is unity and discipline. The main aim of NCC is to groom the youth of the country into discipline, responsible and patriotic citizen.

The selection process in NCC is done every year in the first or second week of July. Cadet selection is done on the basis of physical test. Every year, 30 students (boys & girls) are taken.

NCC NIT Raipur did a lot of social work like Plantation in College and Work in Swachh Bharat Abhiyaan. Efforts were made to spread awareness through rally for water conservation.



Training and Placement

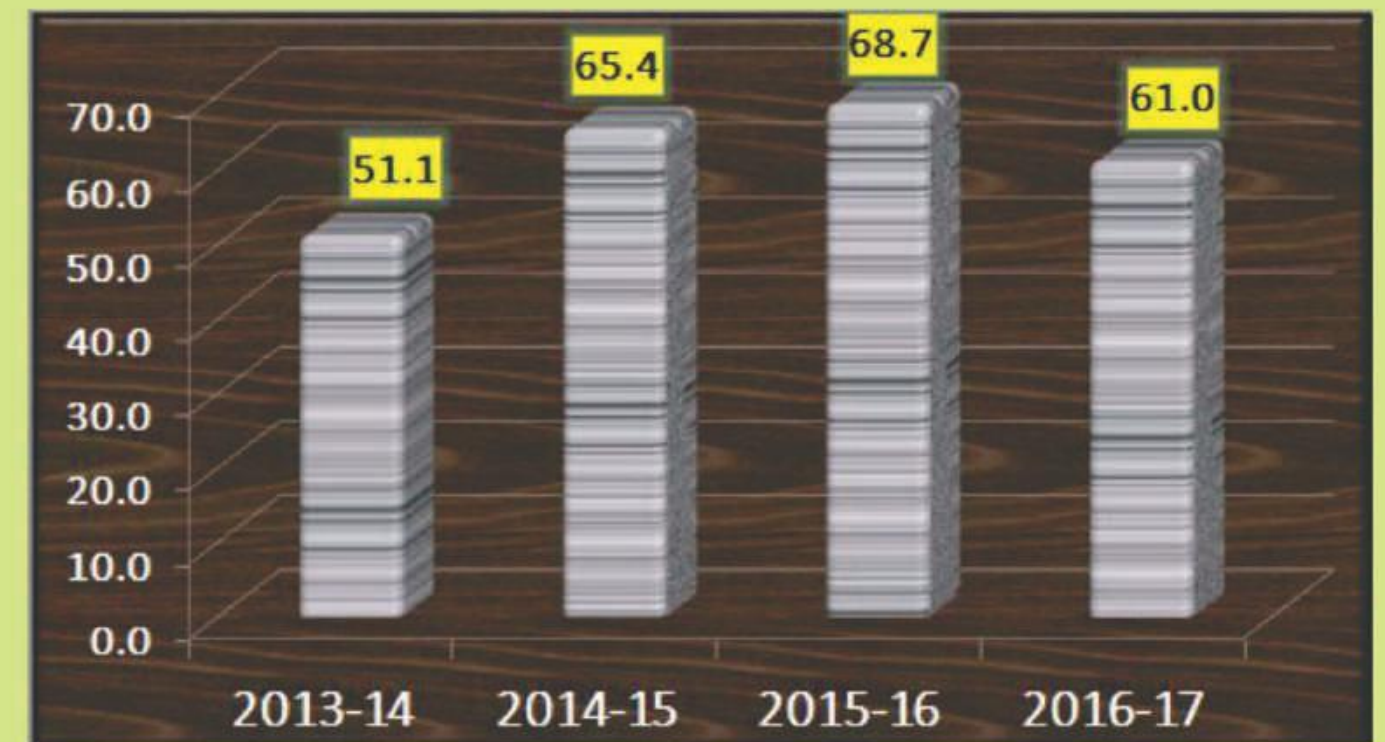
Department of Training & Placement

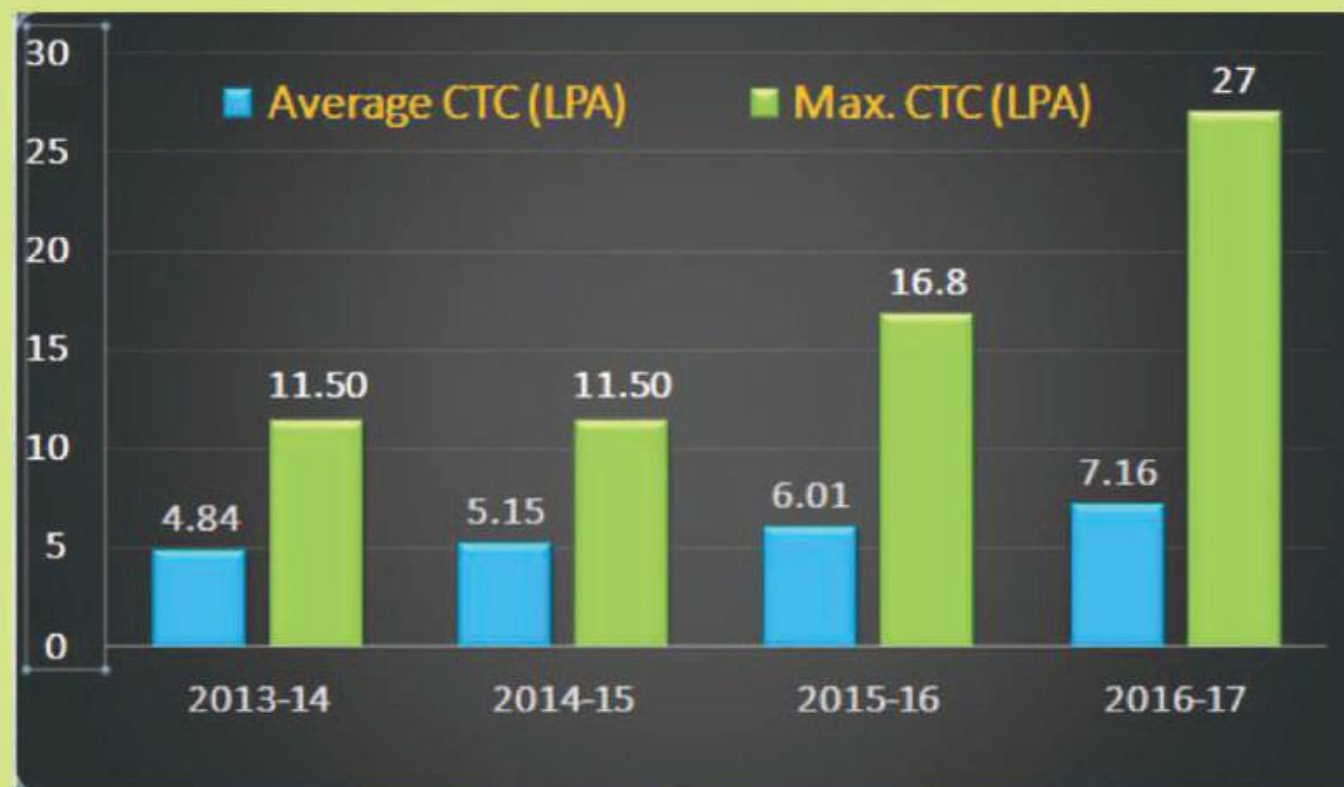
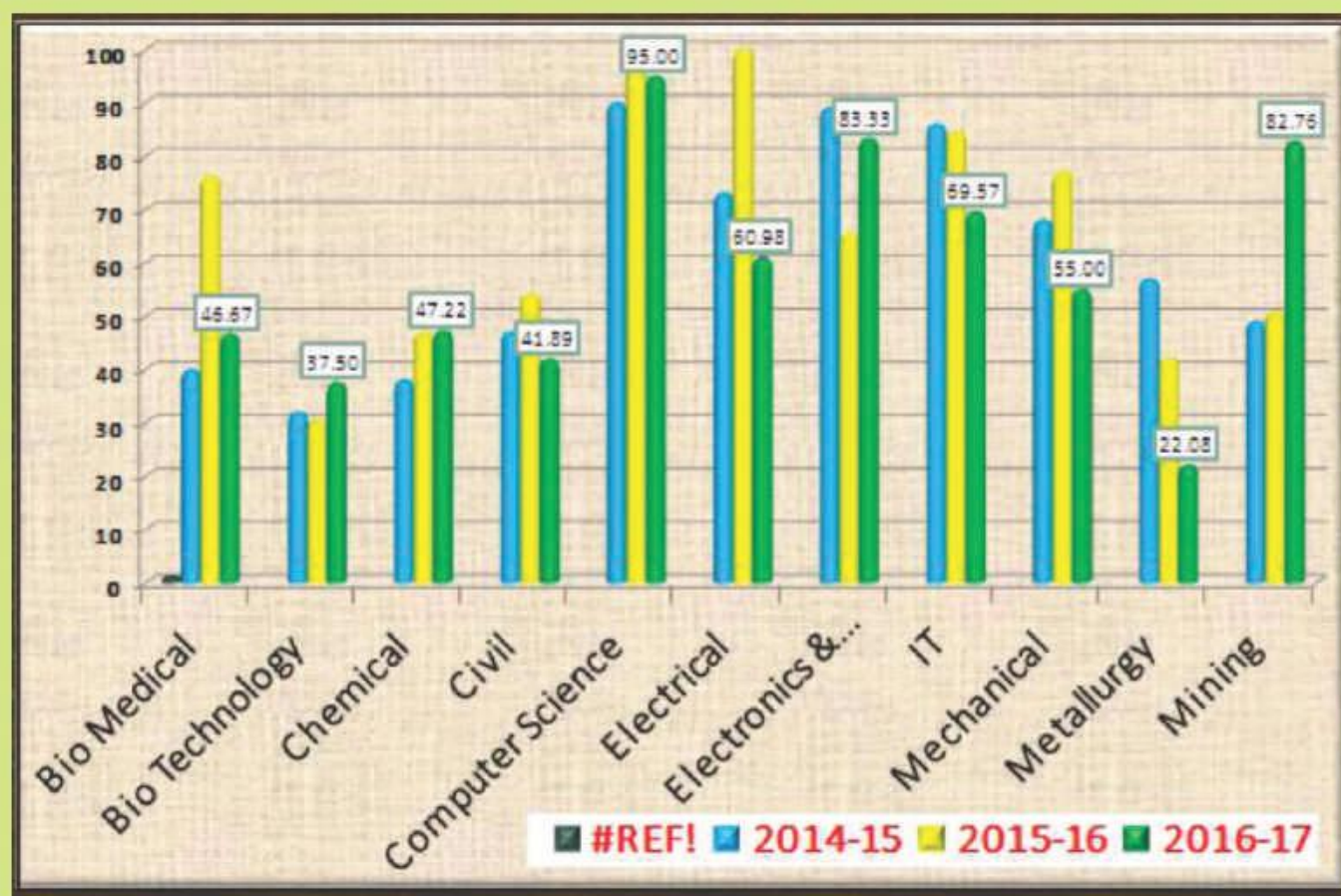
The aim of the Department (TPO) is to provide healthy and equal employment opportunities to the students of the Institute. The Department provides employment opportunities to students through campus placement drives of leading companies. The department of training & placement is also referred as Training & Placement Office (TPO). It is headed by a Professor-in-Charge who is also known as the Training & Placement Officer. The department is headed by Prof. Samir Bajpai. He is assisted by ATPO / Supdt. (T&P) Mr. Ambica Choubey and 'Placement Cell' - a dedicated team of students.



Dr. Samir Bajpai
Head - Training & Placement

Statistics





UNNAT BHARAT ABHIYAN

Vision:

To involve professional and other higher educational institutions of the country in the process of indigenous development of self-sufficient and sustainable village clusters in tune with the notion of 'GramSwaraaj' propounded by Mahatma Gandhi.

Mission:

The Mission of Unnat Bharat Abhiyan is to enable higher educational institutions to work with the people of rural India in identifying development challenges and evolving appropriate solutions for accelerating sustainable growth. It also aims to create a virtuous cycle between society and an inclusive academic system by providing knowledge and practices for emerging professions and to upgrade the capabilities of both the public and the private sectors in responding to the development needs of rural India.

Villages selected under UBA:

- KARA Block: Dharsiwa
- GOMCHI District: Raipur
- GUMA
- TENDUA
- BANA

Some of the areas the UBA Cell has identified to work on at these Villages:

- Village Sanitation
- Drinking Water Supply
- Agricultural Activities
- Irrigation
- Improving technology of handicrafts and artisans
- Improving educational standards
- Improving health

UBA Cell:

- UBA Cell functions directly under the supervision of Director, NIT Raipur.
- NSS and NCC units in the institute are also involved in the activities of the UBA cell.
- Student clubs like Sahyog, We care – Green movement, Sanskriti are also involved in the activities of the UBA Cell.
- Interacting with the students of the school in Guma and getting them well acquainted with their higher studies.
- Interacting with the villagers and explaining them about the government schemes that they get to take benefits from.



Government Higher Secondary School
Xth Class



Team UBA at Govt. Higher Secondary School, Guma.



TEAM UBA-2016-17

DEPARTMENTS



2016-17



DEPARTMENT OF APPLIED GEOLOGY



DEPARTMENT OF BIOMEDICAL ENGINEERING



DEPARTMENT OF BIOTECHNOLOGY



DEPARTMENT OF CHEMICAL ENGINEERING



DEPARTMENT OF CHEMISTRY



CIVIL ENGINEERING (MTECH)



DEPARTMENT OF CIVIL ENGINEERING



DEPARTMENT OF COMPUTER SCIENCE ENGINEERING



DEPARTMENT OF ELECTRICAL ENGINEERING



DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATION ENGINEERING



DEPARTMENT OF HUMANITIES



DEPARTMENT OF INFORMATION TECHNOLOGY



DEPARTMENT OF MECHANICAL ENGG.



DEPARTMENT OF METALLURGICAL ENGINEERING



DEPARTMENT OF MINING ENGINEERING



DEPARTMENT OF PHYSICS



TRAINING & PLACEMENT

STUDENT SUPPORT

LITERATI – SHILPI EDITING AND MANAGEMENT TEAM



MANGEMENT HEADS



MR. VIPUL BOHARA
METALLURGICAL ENGG.
Batch : 2014-18



MR. NIJO SHAJI
BIOMEDICAL ENGG.
Batch : 2014-18



MR. UTKARSH CHOUBEY
MINING ENGG.
Batch : 2014-18



MS. PRIYANKA AHIRWAR
ELECTRONICS AND TELECOM. ENGG.
Batch : 2014-18

CHIEF EDITORS



CHIEF EDITOR (ENGLISH)
MS. SHRADDHA DIXIT
CHEMICAL ENGINEERING
BATCH: 2015-19.



CHIEF EDITOR (HINDI)
MR. RAJ TIWARI
MINING ENGINEERING
BATCH: 2016-20.



NATIONAL INSTITUTE OF TECHNOLOGY RAIPUR

G.E. Road, Raipur, Chhatisgarh - 492010, INDIA

+91-771-2254200, +91-771-2254600