



ISSUE-6

# क्षितिज

The Horizon

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[www.iitrpr.ac.in/kshitij](http://www.iitrpr.ac.in/kshitij)  
kshitij@iitrpr.ac.in

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# दिशा तिज The Horizon



**INDIAN INSTITUTE OF TECHNOLOGY ROPAR**  
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**क्रिति** – The Horizon is the official annual student magazine of Indian Institute of Technology Ropar. It presents a unique amalgamation of the technical minds and their creative skills.

# Message from the Director's Desk

Dear Friends,

It is a pleasure to know about the publication of the 6th issue of IIT Ropar Magazine "Kshitij - The Horizon". A literary magazine from a technical institute is rare and hence it requires more effort to sustain it. On the other hand, today the buzzword in the field of Science & Technology is "Innovation" and without expanding the imagination of the students in particular and the institute stakeholders in general, it is impossible to cater innovation. Human imagination has always inspired for discovery and inventions. It is the desire of a man to fly like a bird which has created the aerospace industry. It is the imagination in "Twenty Thousand Leagues under the Sea" which inspired building of submarines. Hence, it is important that in a technical institute like ours, we encourage imaginative activities such as music, cultural events and above all literature. Kshitij is doing this very task for IIT Ropar right from the beginning. The institute at this moment is going through a very exciting yet painful phase of transition from a very small institute in a limited space to a huge campus with infinite possibilities of expansion. I am sure that in the coming year with movement to the new campus, the breeze of Sutlej and the rising Sun behind the Shiwalik mountains will give us greater space to breathe and extend our imagination. Human ability is infinite; we are only limited by our imagination. Let efforts like Kshitij give you the wings of imagination which can take you to greatest of the achievements and at the same time make a great institute called IIT Ropar.



Jai Hind.

SARIT K. DAS

A handwritten signature in black ink, appearing to read "Sarit K. Das".



Najib Saied

# Man ka ho toh achcha Na ho toh zyada achcha

At a very unstable moment in the life of Mr Amitabh Bachchan, when things were not going as expected and uncertainty loomed over future, his father Harivanshrai Bachchan taught him about the golden rule of life. His father said, "Man ka ho toh achcha, na ho toh zyada achcha." But as a young man, Amitabh could never understand how can 'Man ka na hona' be 'zyada achcha'? After all, he was endeavouring to make both ends meet those days and anything not according to his wishes was a threat to his career, let alone 'zyada achcha'. Feeling very confused, he asked for a better explanation from his father.

His father explained, "When things don't go according to your wishes, they go according to the wishes of the Almighty and He would always want the best things for you in life." So therefore, 'naa ho toh zyada achcha'. This philosophy of 'Faring Forward' rather than 'Faring well' has also been glorified by many literateurs around the world including the English poet TS Eliot in his poem 'The Dry Salvages'. Our mythology also, particularly through the episode of Krishna and Arjuna in Kurukshetra, teaches us to move on and not be affected by circumstances.

Is life fair to everyone? No, not always. Not everyone is a son of rich dad, not everyone has got good friends, not everyone has got a good family, not everyone has the money to afford the comforts of life, not everyone is blessed with good health, not everyone gets the success he deserves. But even in such a case, can 'Man ka naa hona' still be 'zyada achcha'? Yes, it still can be, says the senior Bachchan. Looking at all the success stories of the world, one can realise that these stories on the other hand were also the stories of great failures, deprivation and struggles. Failure or 'man ka na hona' provides a rock bottom for laying out the future. When you let go the fear of losing, you become free. This attainment of the courage to let go, come what may, makes circumstances 'zyada achcha' according to Mr Bachchan. Hence, these lines rightly sum up the philosophy of life.

*If you got something, its good; if not, better things are awaiting you.*

Shubham Sharma

# Camouflage

Morose and gloom surround me  
Leaving the clouds of grief run free,

Amidst the despondence my thoughts sway  
To catch the creator of this encompassing grey

Who dare bestow me with this forlorn rain?  
Stretching this agony beyond the bearable pain

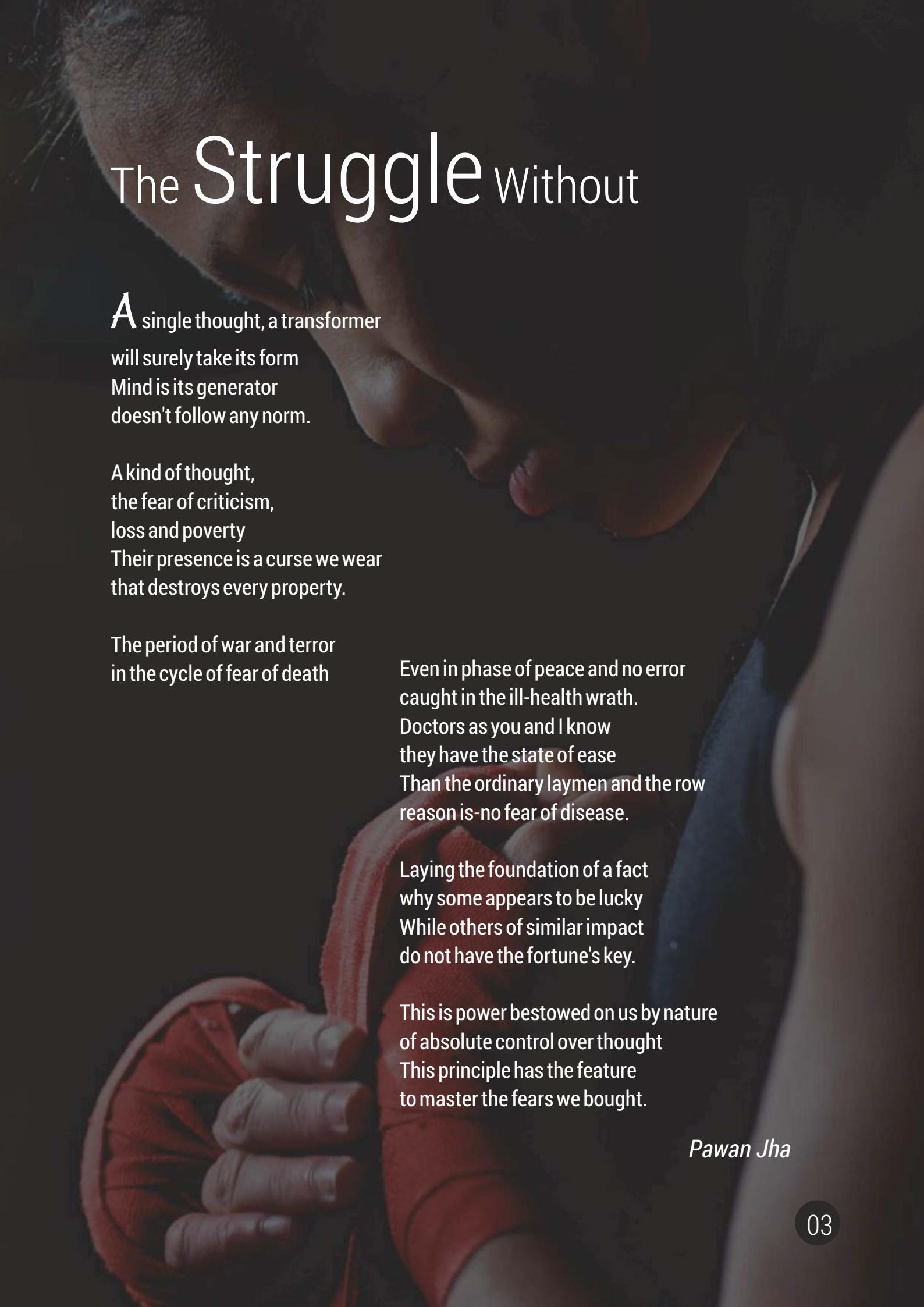
Like a mirage in the parched and burning sands  
Unveiling false longings, beyond the reach of my hands.

Tearing down the forest of my inner darkness  
I catch a glimpse,  
A devious grin from the brightness  
Freezes all my limbs

It was Hope.  
The creator, the traitor, the sly devil  
Always prolonging one's torment beyond all evil.

*Prajwal*

# The Struggle Without



A single thought, a transformer  
will surely take its form  
Mind is its generator  
doesn't follow any norm.

A kind of thought,  
the fear of criticism,  
loss and poverty  
Their presence is a curse we wear  
that destroys every property.

The period of war and terror  
in the cycle of fear of death

Even in phase of peace and no error  
caught in the ill-health wrath.  
Doctors as you and I know  
they have the state of ease  
Than the ordinary laymen and the row  
reason is-no fear of disease.

Laying the foundation of a fact  
why some appears to be lucky  
While others of similar impact  
do not have the fortune's key.

This is power bestowed on us by nature  
of absolute control over thought  
This principle has the feature  
to master the fears we bought.

Pawan Jha

# Muse of Life

“ Mera Tareeq Ameeri Nahin, Fafeeri Hai  
Khudi Na Baich, Ghareebi Mein Naam Paida Kar! ”

“ Nahin tera nasheeman Qasr-e-Sultani ke gumbad par;  
Tu shahin hai, basera kar paharo'n ki chattanu'n par. ”

“ Khuda tujhe kisi toofan say aashna kar de;  
Ke tere bahr ki moju'n main iztirab naheen. ”

“ Tujhe Kitab Se Mumkin Nahin Faragh Ke Tu  
Kitab Khawah Hai Magar Sahib-e-Kitab Nahin! ”

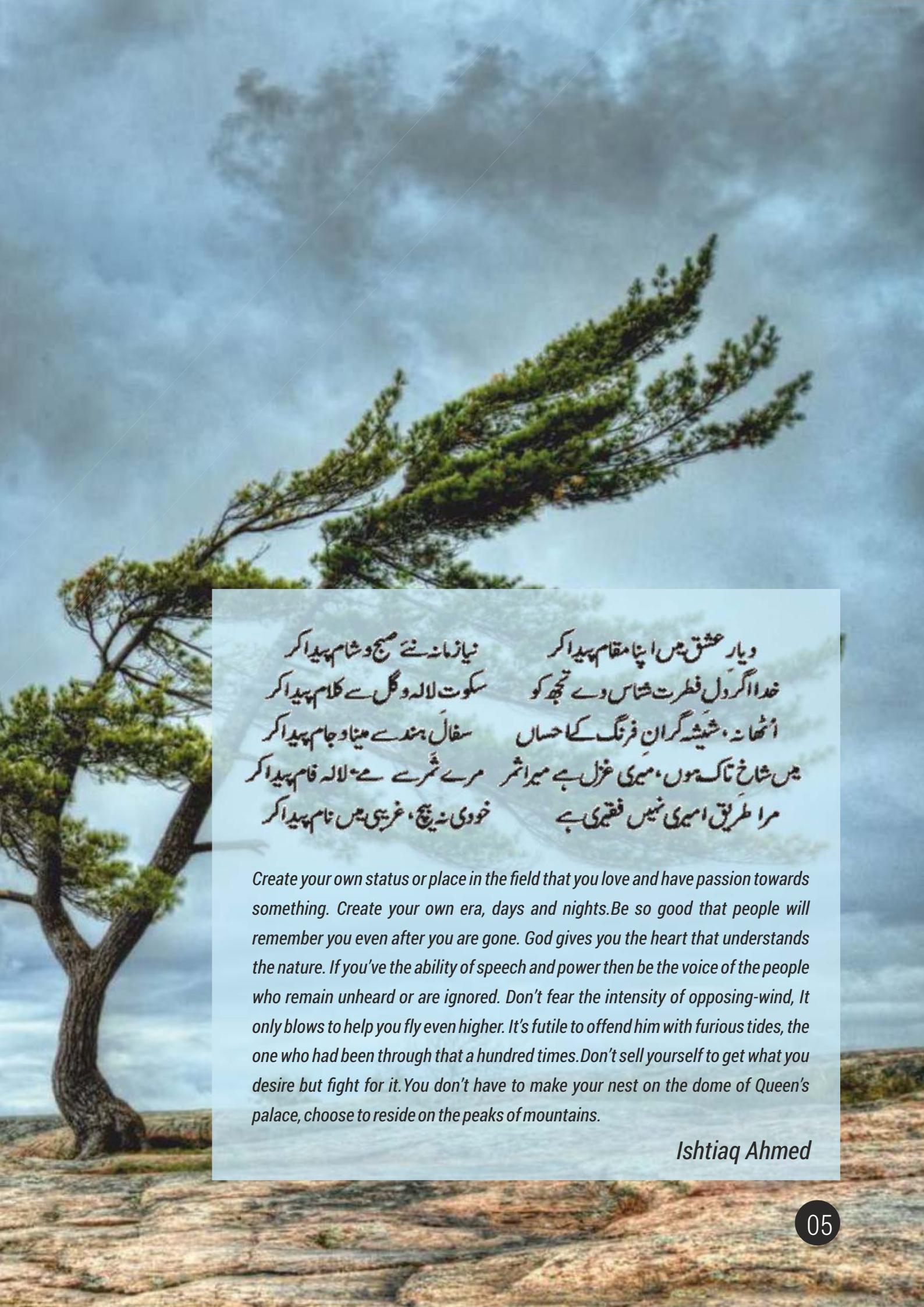
“ Khudi ko kar buland itna ke har taqdeer se pehle  
Khuda bande se khud pooche bata teri raza kya hai. ”

“ Diyar-e-Ishq Mein Apna Maqam Paida Kar  
Naya Zamana, Naye Subah-o-Sham Paida Kar ”

“ Khuda Agar Dil-e-Fitrat Shanas De Tujh Ko  
Sakoot-e-Lala-o-Gul Se Kalaam Paida Kar ”

“ Tunde-e-Baad-e-Mukhalif se na ghabra, ae aqaab;  
Yeh to chalti hai tujhe uncha uthane ke liye. ”

“ Mauj-e-Sar Sar Se Daraata Hai Usse Tu Bekaar;  
Bujh Chuka Hai Jo Naseeb-e-Sehri se sau baar. ”



دیارِ عشق میں اپنا مقام پیدا کر  
نیاز نہ نئے صح و شام پیدا کر  
خدا اگر دل فطرت شناس دے تجھ کو  
سکوت لالہ و گل سے کلام پیدا کر  
آٹھاں، شیشہ گران فرنگ کا حسان  
سفال ہند سے میتا و جام پیدا کر  
میں شاخ تاک ہوں، میری غزل ہے میرا شر مرے شر سے مے لالہ فام پیدا کر  
مرا طریق امیری نہیں فقیری ہے خودی شیع، غربتی میں نام پیدا کر

*Create your own status or place in the field that you love and have passion towards something. Create your own era, days and nights. Be so good that people will remember you even after you are gone. God gives you the heart that understands the nature. If you've the ability of speech and power then be the voice of the people who remain unheard or are ignored. Don't fear the intensity of opposing-wind, It only blows to help you fly even higher. It's futile to offend him with furious tides, the one who had been through that a hundred times. Don't sell yourself to get what you desire but fight for it. You don't have to make your nest on the dome of Queen's palace, choose to reside on the peaks of mountains.*

Ishtiaq Ahmed

# Why Engineering

Recently, I came in contact with an official working in Reserve Bank of India stating “engineers are people from other planet” referring to wide professions a budding engineer finally ends into ranging from management to leaders across the sphere.

Then the idea struck me as why is engineering still the loved profession. In fact, engineering is the most common undergraduate degree among top personalities around the world. Michael Lovell, chancellor of UWMilwaukee says that, "One of the things we learn in engineering is to be a systems level thinker, so that we see a very big picture in how adjusting one area affects and impacts downstream other areas. That's really important when you're running a large, complex organization. If something gets to the CEO level, it's not an easy problem to solve. They need to look at all of the variables before making a decision. It's a thought process."

Even though engineers have always been described as geeks; some qualities that an engineer develops or possess distinguish him and act as stepping stone to other professions. In general, engineers are good at problem solving, organising, prioritising, analyzing and risk management. Apart from those who are motivated by curiosity of “how stuff works” most just take engineering to discover themselves. The challenges an engineer faces daily molds him and sometimes influences his interests. It makes



him versatile to changes around him. Engineers are ‘innovators’. The expanding information sector acts as magnet for those who are disillusioned about their future and ultimately end up designing future of the nation. The recent Startup Boom is a consequence of the same. Starting as a core engineer many end up being CEO and leaders of the organisations who transform the globe.

Nitin Nohria, dean of Harvard Business School, explains that, “Engineering is about what works, and it breeds in you an ethos of building things that work—whether it’s a machine or a structure or an organization. Engineering also teaches you to try to do things efficiently and eloquently, with reliable outcomes, and with a margin of safety. It makes you think about costs versus performance. These are principles that can be deeply important when you think about organizations.”

The unique experiences and education than an engineer posses makes him solve the challenges seen as impenetrable in a glimpse. Accordingly, it's no surprise that engineering is the preferred choice among the potential revolutionaries of tomorrow.

*Naman Goyal*

# कुछ तो गलत मैं भी हूँ

कुछ तो गलत मैं भी हूँ  
तूम तो अभी अभी नाराज हुए हो  
कुछ ओर भी लोग नाराज हैं मुझसे ।

हिन्दी वाला ठीचर डंडे मारता  
कहता कोई हिन्दी में भी कमज़ोर होता हैं भला  
क्यूँकि तू कुछ बोलता ही नही हैं  
मैं तो लिख भी देता पर  
शायद मैं ही गलत था ।

सर सीट वेटिंग में हैं  
कोई खाली सीट हैं तो बता दो  
वो इशारे करने लगा  
मैं तो जेब में पैसे भी डाल देता पर  
शायद मैं ही गलत था ।

अंबाला में ठीचर ने एक साधु को  
ट्रेन में चढ़ने पर लात मार दी  
उसे पुलिस से भी पिटवाया  
मैं उस अकेले कमज़ोर को बचा भी लेता पर  
शायद मैं ही गलत था ।

*Vijendra Maharda*

# From IIT to LBSNAA

Earlier in my days of engineering never had I realized that one day I would be experiencing the riches of the LBSNAA academy for the training of the Indian Administrative Services.

When I was in school my dream was to get an admission in one of the reputed Indian Institute of Technology. When I got the admission in IIT Ropar's electrical engineering branch and came to know that as the first batch I would be mentored by IIT Delhi and would get to study with students from IIT Delhi, I was pretty excited. Later when we were shifted to Ropar I got to experience the new dimensions of the people, pedagogy and perseverance that all put in to make the new batch a success.

Although I had options to pursue my engineering field as my occupation, I did not sit into the campus placement. The reasons for this were –

1. My aim of doing a job that not just fixated me into a cubicle and make codes but to do a job that is diverse in sense of the means (the way the job was done) and the ends (the purpose the job served)
2. A constant inspiration by my parents to join the civil services
3. Doing a challenging job that provides me with new dynamics and makes my occupational life interesting till the end.

Therefore I sat for civil services and with constant vigor, I cleared my civil services exam in 2017 after passing out from IIT in 2012. This was my fourth attempt and I got an All India Rank of 20. After the result I was called to a function of Department of Personnel and Training and I was elated. After 3 months, it was time to join LBSNAA.

Life in LBSNAA till now has been mesmerizing. The course schedule here is so busy that even after constant reminders by the people writing the Kshitij magazine, I could only write this article at



the last moments (I was on the train going to my village visit while writing this article. I did not even have my 4G to go with). The reason why I have enjoyed the training here till now is because of the focus on practicality shown by the academy. Eg. Building communications, relationships and a spirit of esprit de corps by a 8 days Himalayan trek. The other things of interest here are the cultural festivals and the street food festival organized by the officer trainees themselves. Also one more reason of me enjoying LBSNAA training is the escape from pollution in Delhi (as I am a Delhite).....(just joking).

I hope that the training in LBSNAA academy gives me a perspective on how to solve the problems faced by India in terms of poverty, education, health etc. I would also humbly request youngsters to join this service because it is in the need of bright people. I would hope that my success becomes an inspiration for any of the future IIT roparians to join this service and dedicate their life in the service of the nation. Best of luck from my side for all for their future careers and life.

*Rahul Gupta*  
AIR-20, Civil Services Exam 2016

# टूटा तारा

बिना काँटों का हो तो मुकद्दर ही क्या ?  
वो मुकद्दर जिसमे न कोई कुसूर हमारा !  
उसका एक हसीन तोहफा है भी तो क्या ?  
बस आँखों से छलकता एक टूटा तारा !!

वो टूटा था ,पर सितारा तो था  
मुरझाई उम्मीदों का सहारा तो था !  
तारा जो तकदीर से रंज नहीं करता  
जो टूटा ना हो तो मुरादे पूरी नहीं करता !!

तारे की चमक आँखों में बसाए रखो  
तकदीर से लड़ने की अलख जगाए रखो !

हालात से डरना तो कायरो की निशानी है  
अंगार है ये जो मेरी आँखों में पानी है !!

अंगार वो ,जो तारे बनकर धदक्के है  
हम वो फूल है जो कटकर महकते है !!

विशाल तोमर



# Burning inside

Storm over the ocean of youth  
Breaks the vertebra of dreams,  
Heart cries with tides of agony  
Leaving the whole world away.

May lead a wrong way of thinking  
Make the sorrow as spy.  
Neither the rain nor the spring,  
Can make the heart green.

Objections, protests never allow to walk  
Face the perceivable sorrow.  
Try to stand but still crawling,  
Murmuring inside expressing nothing.

Search the mystery behind sad and death,  
Uncover the reality in a moment.  
Within the time of blinking of eye,  
Sun sets with smoke filling sky.

The empty brain wings spread the darkness  
Overwhelms the uncertain future time.

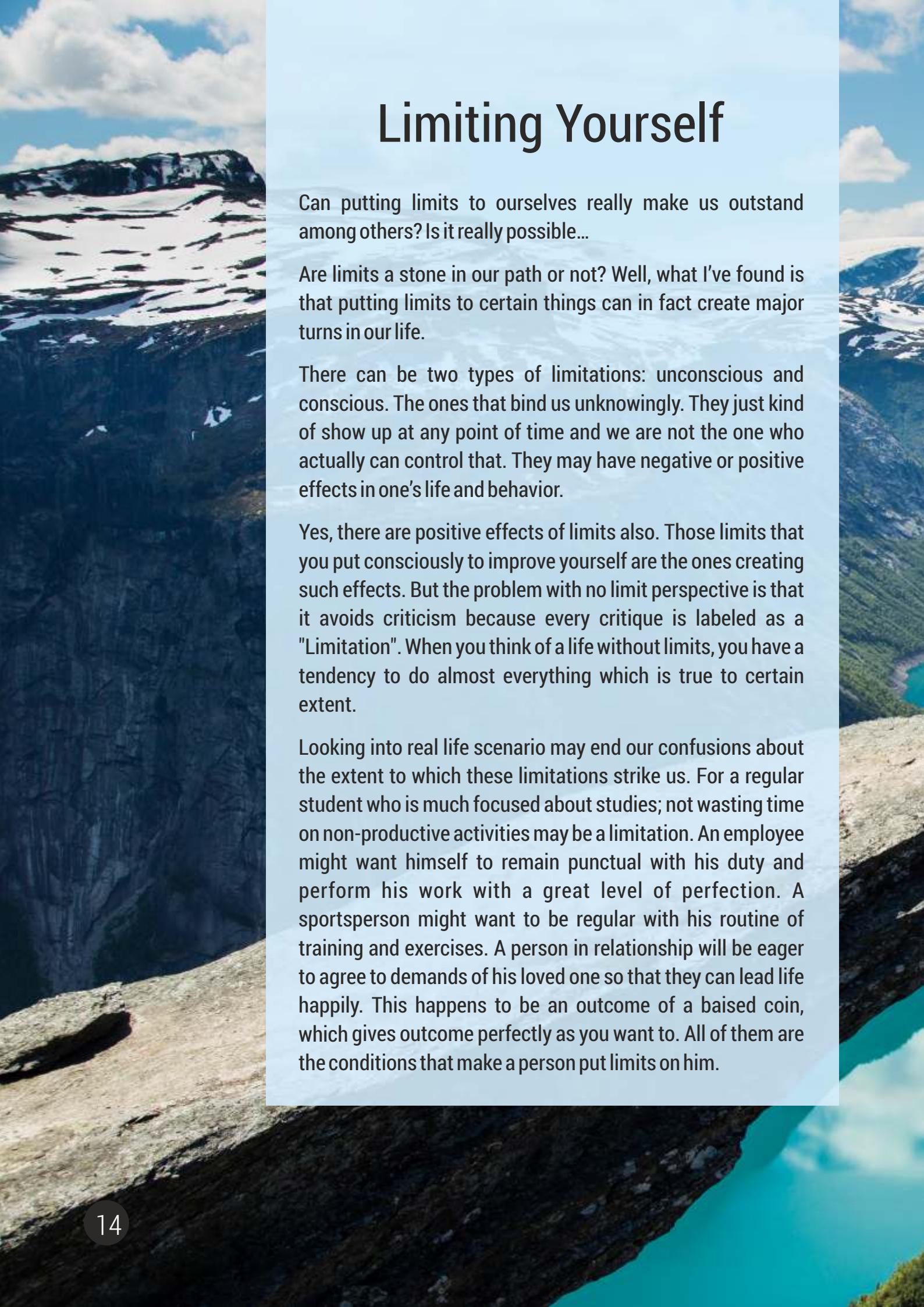
*Basanta K. Parida*

## ଅନ୍ତର୍ଦୀହ

କେଣୋରର ସମୁଦ୍ରରେ ହତୋସାହର ଝଡ଼,  
ଭାଙ୍ଗିଦିଏ ଲୁହାପରି ଶକ୍ତ (ସ୍ଵପ୍ନ)ହମ୍ବ ହାଡ଼ ।  
ଅନ୍ତରର ବ୍ୟଥା ସବୁ ଜୁଆର ପରାଏ,  
ଘଟ ଛାଡ଼ି କାହିଁ କେତେ ଦୂରକୁ ପଳାଏ ।  
ଅଜଣା ଏକ ଭାବନାର ମଞ୍ଜି ବୁଣି ,  
ଦୁଃଖକୁ ଗୁଛନ୍ଦା ସଜାଏ ।  
ନା ବର୍ଷା ନା ବସନ୍ତ ,  
ଉରିପାରେ ସବୁଜିମା ହୃଦୟର ମଲାଚରେ ।  
ବିରୋଧ ଓ ପ୍ରତିବାଦ ଚାଲିବାକୁ ଦିଏନି ସାହାରା,  
ଇନ୍ଦ୍ରିୟଗ୍ରାହ୍ୟ ଦୁଃଖକୁ କରି ଆପଣାରେ ।  
ଗୁରୁଣ୍ଠିଗୁରୁଣ୍ଠି ଚାଲେ ସଳଖ୍ଯ ପାରେନି ଅଣ୍ଣା,  
ଗୁଣୁଗୁଣୁ ହେଉଥାଏ ଶୂନ୍ୟତାର ଗାଥା ।  
ଦୁଃଖ ଆଉ ମୃତ୍ୟୁର ରହସ୍ୟ ଖୋଜି ,  
କଣିକରେ ସତ୍ୟକୁ କରେ ଆବିଷ୍ମାର ।  
ଆଖ୍ୟ ପଲକରେ ଅସ୍ତ୍ରଯାଏ ସୁର୍ଯ୍ୟ,  
ଆକାଶରେ ଉରିଯାଏ ଧୂମାଳ ।  
ଶୂନ୍ୟ ମହିଷର ତେଣାରୁ ସଞ୍ଚିତ୍ୟାଏ ଅନ୍ଧାର,  
ଅଭିଭୂତ କରିଦିଏ ଭବିଷ୍ୟତର ଆକାର ।

His dreams broke down,  
his thinking took the  
wrong way. Because no  
one was there to share  
his feelings, his heart  
protested against his  
own will. In the blink of  
an eye, all his dreams  
disappeared just the way  
fog vanishes when sun  
rises high in the sky.  
Overwhelmed by his  
thoughts, he couldn't  
succeed to express the  
cry of his heart.

*Basanta K. Parida*



# Limiting Yourself

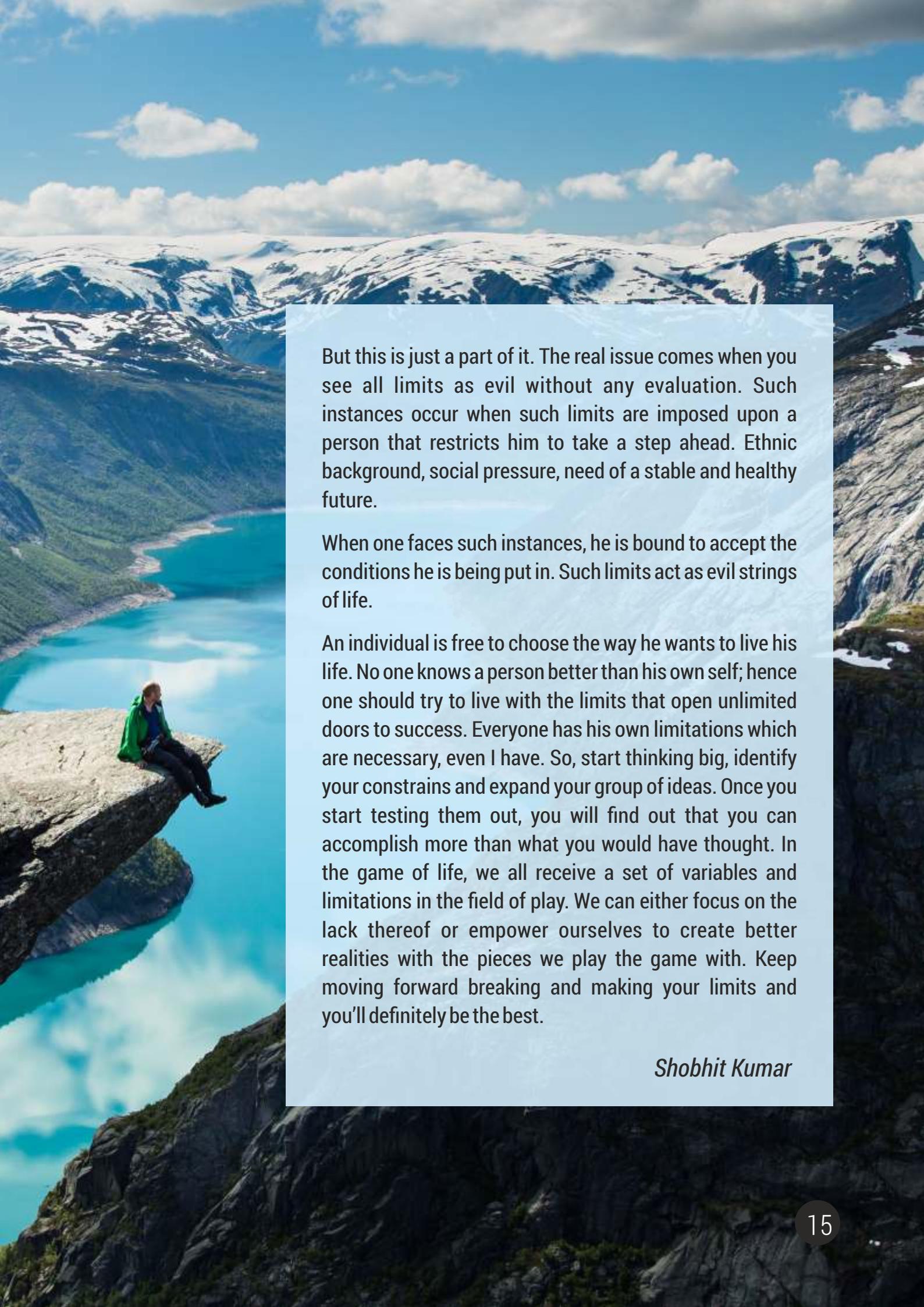
Can putting limits to ourselves really make us outstanding among others? Is it really possible...

Are limits a stone in our path or not? Well, what I've found is that putting limits to certain things can in fact create major turns in our life.

There can be two types of limitations: unconscious and conscious. The ones that bind us unknowingly. They just kind of show up at any point of time and we are not the one who actually can control that. They may have negative or positive effects in one's life and behavior.

Yes, there are positive effects of limits also. Those limits that you put consciously to improve yourself are the ones creating such effects. But the problem with no limit perspective is that it avoids criticism because every critique is labeled as a "Limitation". When you think of a life without limits, you have a tendency to do almost everything which is true to certain extent.

Looking into real life scenario may end our confusions about the extent to which these limitations strike us. For a regular student who is much focused about studies; not wasting time on non-productive activities may be a limitation. An employee might want himself to remain punctual with his duty and perform his work with a great level of perfection. A sportsperson might want to be regular with his routine of training and exercises. A person in relationship will be eager to agree to demands of his loved one so that they can lead life happily. This happens to be an outcome of a biased coin, which gives outcome perfectly as you want to. All of them are the conditions that make a person put limits on him.



But this is just a part of it. The real issue comes when you see all limits as evil without any evaluation. Such instances occur when such limits are imposed upon a person that restricts him to take a step ahead. Ethnic background, social pressure, need of a stable and healthy future.

When one faces such instances, he is bound to accept the conditions he is being put in. Such limits act as evil strings of life.

An individual is free to choose the way he wants to live his life. No one knows a person better than his own self; hence one should try to live with the limits that open unlimited doors to success. Everyone has his own limitations which are necessary, even I have. So, start thinking big, identify your constraints and expand your group of ideas. Once you start testing them out, you will find out that you can accomplish more than what you would have thought. In the game of life, we all receive a set of variables and limitations in the field of play. We can either focus on the lack thereof or empower ourselves to create better realities with the pieces we play the game with. Keep moving forward breaking and making your limits and you'll definitely be the best.

*Shobhit Kumar*



# EN-ACT-US

Entrepreneurial—having the perspective to see an opportunity and the talent to create value from that opportunity;

Action—the willingness to do something and the commitment to see it through even when the outcome is not guaranteed;

Us—a group of people who see themselves connected in some important way; individuals that are part of a greater whole.

Enactus is an international organization that connects student, academic and business leaders through entrepreneurial-based projects that empower people to transform opportunities into real, sustainable progress for themselves and their communities.

Started in 2012 with a vision to make this world a better place Enactus IIT Ropar recently completed its 4 years. From the commencing day to the present day ENACTUS IIT Ropar is working relentlessly to make communities self-sustainable and independent and to empower people by enhancing their skills and making them more aware. The team is working very hard and will continue to do so to achieve ENACTUS' mission of making a better tomorrow.

Impact so far	
We have created	9 entrepreneurs
Dedicated work of more than	2000+ hours per year
Revenue generated(in/direct)	₹ 4,97,931
Affected Directly	1447 lives
And touched more than	3908 lives

## Project Sawari

IIT Ropar situated at the outskirts of the city called Rupnagar is the community



## आनंदपुर साहिब में ऑनलाइन नशा छुड़ाओं केंद्र का उद्घाटन

असताल को तरफ से हर ददा बीजी दी जाएगी : एस. डी. एच.



## Telemedicine centres launched

**RUPNAGAR:** India's Institute of Technology, Ropar, chapter of 'Ecautus' has launched Punjab's first ever e-swasthya centres. It has been launched at Rupnagar civil hospital, Singhpur community health centre and Anandpur Sahib civil hospital in collaboration with IDEMITS.



targeted. There are about 650 students from various graduate, undergraduate as well as doctorate program studying here. Since the college does not permits the use of motor vehicles for students and prior permission has to be taken to buy cycles. Students were completely dependent on Auto drivers for their transportation which was quite costly. Auto drivers who used to charge Rs 17.5 on each Kilometer. On an average, a student spent Rs 300 per month on transportation from college to Ropar. While others preferred walking rather than paying huge dues, we will like to consider time as a resource as well. The most feasible solution to the above problem was providing bicycles on rent. Therefore, SAWARI aims to provide a healthy and time saving transportation service to students of IIT Ropar , also empowering the entrepreneur.

## Project Prabhas

An endeavour to train and educate the illiterate daily wage workers having meagre access to electricity about the solar energy solutions capacitating them to enlighten their homes. Bara phool is a nucleated village on the banks of river Sutlej, Rupnagar comprising more than 400 families in residential proximity. For the past 40 years, they have been living in the heart of darkness with little or no supply of electricity. The conventional solutions they resort to not only proved to be expensive but also environmentally frail. All these issues remained unaddressed

by a larger part of time, which drives project PRABHAS to bring light literally to their lives. PRABHAS makes the residents of the village self-dependent to procure, maintain and handle sustainable energy solutions in the long run.



## Project E-Swasthya

Rupnagar with a population of 4,97,795, has a lamentable 13 health-care centres. That's one centre for every 38,291.

Villagers who are predominantly farmers neither have the required time, nor the health centres have enough personnel to cater to their needs. There are limited medical facilities and no professional help. This handicap is driving the villagers to the district head quarters Rupnagar or Chandigarh which requires long hours of travel and hefty consultation fees.

To address this problem, Enactus IIT Ropar have begun the quest to deliver state of art medical facilities to grass-root level with the help of technologies available. It struck to the chord that Telemedicine- the remote diagnosis and treatment of patients by means of telecommunications technology is a viable alternative to the problem. With the two pilot centers(at Anandpur Sahib and Nurpur Bedi) in place, we have managed to treat 171 patients, created 3 job opportunities for telemedicine operators, saved 51,300 as transportation charges for the patients thereby reducing 7 tonnes of carbon dioxide emissions. 520 individuals have been educated on practices for disease reduction, and made health-care accessible to 24,282 people and all this by a team of ten students dedicating 1249 hours in a span of 9 months and the best is yet to be as we are in talks with an IT company 'Patient Planet' aims to provide health-care facilities to further our project and bring the services to remote locations of Punjab.



## Project Kalpvriksh

The project began when Enactus IIT Ropar noticed the college mess workers giving away the food wasted during one dining session and it was an unsettling view. Scores of kilograms of food is being thrown away to cattle everyday. Enactus IIT Ropar set upon to tame this problem of food wastage and use it to satiate the hunger of many underprivileged. The Autowallahs and Rickshaw pullers usually live outside the town and hence are forced to shell out a great deal of money to obtain healthy and hygienic food for their lunch. The leftover food from the mess is immediately taken after the dining session and sold to the needy at a token amount. The people who usually spend Rs 40 for a healthy meal, have saved a half of it. It worked wonders and the food being thrown into the tub came down gradually from 55 kilos to 25 kilos from 2 messes.



# ADVITYA

## Technical Extravaganza

Advitiya is the maiden Technological and Entrepreneurial Festival organized by the students of Indian Institute of Technology, Ropar. Etymologically, the word Advitiya (A meaning 'without' + Dvitiya meaning 'second') literally meaning unique or matchless.

Hence, the word 'Advitiya' signifies creation or innovation in technology.

Advitiya believes in fostering the spirit of innovation and igniting young minds towards a more technologically and economically viable future. The forte of this festival lies not only in its spectacular display of technical acumen but also in its wide platform for entrepreneurial undertakings and social initiatives.

The festival is to be held over three days this March from 22nd to 24th and attracts participants from every corner of the country. Advitiya comprises of ardent competitions, elucidative workshops, exhibitions, illuminating talks and exhilarating pro-nights that inspire, enthrall

and mesmerize the massive hordes that attend. With some of the sharpest minds of the nation converging under one banner, one can expect to go back inspired.

With a 12-hour HACKATHON, you can see a lively example of how computer-science can revolutionize the art of problem solving for one and all. RIP-BOTS gives tech-geeks a challenge to create a robot whose sole purpose is to immobilize or otherwise move your opponent out of the arena within a stipulated time. MUN aims to develop universally acceptable proposals to solve some of the pressing global issues including poverty, health, energy and education, conflict, wildlife and conservation, climate change, imbalanced trade among others. Everybody needs idols to learn from and who is better than Dr. Tapan Misra (Director of Space Application Centre), Mr. Varun Agarwal (Co-Founder of Alma-Mater) and Mr. Diwakar Vaish (inventor of India's First Humanoid Robot), to listen to and learn from in Advitiya Talks.

Advitiya's Exhibition will enthrall the tech-community with the innovative products that will be displayed in the festival.

This festival cannot be a success without help and support of tech enthusiastic companies like Webstaff, Ralson Tyres, Jeol Solutions and we extend our gratitude to them.

Tech has evolved as a platform for creators, innovators and thinkers to express themselves and bring to life their thoughts and ideas. Tech is limited not by our times but by our dreams.

Advitiya's vision is the technical fest organised by the students of IIT Ropar with a motto of providing the technical enthusiasts of our country a platform to explore, innovate and showcase their technical and engineering prowess.

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# IIT ROPAR MEDALISTS

Graduating Batch  
2015



**Pulkit Gera**  
President Gold Medal  
Director Gold Medal

Graduating Batch  
2016



**Gaurav Mittal**  
President Gold Medal



**R. Rohan Prasad**  
Institute Silver Medal



**Amogh Agrawal**  
Director Gold Medal  
Institute Silver Medal



**Gourav Bansal**  
Institute Silver Medal



**Nekkanti Akhil**  
Institute Silver Medal



## PULKIT GERA

**1) How is your professional life/further studies different from college life? Is there a significant gap between these two and if yes, how do you feel these can be bridged?**

Life at Ropar -amalgamation of college and hostel life- and now in a corporate, is like living in different realms, both offering you a plethora of obstacles and opportunities. College life was a bridge between my life at home and professional life. It makes you learn to be independent, set your goals and start figuring out your career perspectives.

Hostels was learning to become more independent and living with a bunch of people who think and dream almost the same what you do. Entering into professional life is leaving the carefree life of college, your buddies and start living a life which demands you to be more responsible.

You will be judged on how well you execute your responsibilities and take initiatives. Your next project will depend on how well you contribute to the current one. There are humongous amount of opportunities waiting for you. You are now paid for being grilled. You can now show the work you do to people and you do get motivated when people use it.

Well, how to bridge the gap? We all have lived at different places and adjust to the differences in conditions and environments. Early or late, everybody learns to make himself comfortable and draw his/her own comfort zone. Change is an inevitable law of nature and you need to always adjust to it. The best move is always to take risk and experiment by living it.

## **2) How important are consistent efforts throughout a student's stay at college?**

I would quote Richard G. Scott, "We become what we want to be by consistently being what we want to become each day". Cracking JEE would have been a miracle if we were not consistent in preparing for it. Similarly, consistent efforts reap good results in long term. Take sports, nobody wins by practising just before when one has to perform. You tend to use only the concepts you learnt overtime. Its just that with consistency comes experience and everybody knows the importance of experience.

## **3) According to you, how important are sports and cultural activities in a student's life? Do you think your extra-curricular activities in college help you in your professional life in any way?**

Undoubtedly, they carve a different aspect of your personality. You make good connections with people when interact with them. Skills needed to work in a team, leadership, ownership, dedication are a few of the many traits which are easy to imbibe via sports than by other means. It not only keeps you physically active and healthy but also rejuvenates your mind and boosts it to perform better. Even if you aren't good at sports, don't hesitate to play. Nobody is asking you to make it your profession, all what is required is to play and have a

determination to try playing better. Cultural activities constructs a different personality in you. And believe me, in professional world working with people having almost equal intelligence, the one who can express his thoughts surpasses everyone.

## **4) How, according to you, has the curriculum at IIT Ropar helped you in your studies/job?**

Keeping this one short. I have a degree in Electrical Engineering and I'm working as a Software Engineer. All because our curriculum gave me liberties to opt for electives which I thought were good for me. And at a later stage, you do appreciate importance of courses like pragmatic communication, economics. You might be a Software Engineer but you might be working in Manufacturing Industry. Personally, I'm thankful to the CSE department for offering courses like Data Structures, Digital Image Analysis, Computer Vision, Databases, etc. to us. It has really helped us to pursue the career we are in.

## **5) Please give some suggestions to make our college and student life at college better. Is there something new which should be added as an important part of curriculum/college life at IIT Ropar?**

I would say as students you have great powers. Your contribution will have huge impact on the future of the institute and

help it soaring new heights. Take initiatives to manage clubs because a lot of them open. Look at how and what all things are done in established institutes and try to inculcate them in a better way. Keep looking for opportunities and technologies that swarm the market, learning them will always be a plus. We all have courses which require less effort to score while others are more exhaustive. Courses which require less effort give you the opportunity to explore what is going on in that field. Read some papers or google what are the employment opportunities in that field. You will always find things the curriculum doesn't cover. I would highly stress on code review by TA's, use of version control systems (like GitHub) for projects and courses to be accompanied by projects giving practical insights into the field. These are really helpful in figuring your interests and are an additional plus to your resume.

## **6) What advice you would like to give to the students at IIT Ropar?**

Getting into IIT after beating the cut throat competition of JEE is a commendable job. I totally agree to this but I've seen really smart people relaxing too much for taking

admission into IIT as their biggest biggest victory. Always remember we study in one of the most privileged institute. Our education is subsidised by the government. We are a part of an autonomous body having its own evaluation criteria and transparency which many other universities fail to deliver. We've got the tag of an IITian, facilities and opportunities which many others don't get. At the end of four years, make sure you have done justice to the opportunities given to you.

## **7) Please summarize you stay at IIT-Ropar in a sentence.**

IIT Ropar has given me the freedom, courage and opportunity to see dreams. The various experiences have fostered in me energy and confidence required to fulfil them. The complete stay of 1380 days of living was simply awesome.



## GAURAV MITTAL

**Q1. How is your professional life/further studies different from college life? Is there a significant gap between these two and if yes, how do you feel these can be bridged?**

Life after college, especially the professional life, is a lot harder than college life. It's because the student now truly embraces the reality and is faced with a series of hurdles which test not just one's intellectual competency but also the mental and emotional acuity. The student transitions into an independent individual who is fully and solely responsible for every single of his/her action. I believe that this gap between college and real life can be effectively bridged by sessions on life skills during college where students are put into situations where they get better prepared for the hustle and bustle of reality.

**Q2. How important are consistent efforts throughout a student's stay at college?**

There are times, in every student's life, when things go south and all look lost. But it is these moments that are the true tests of one's consistency. One needs to realize a very simple fact that all is never lost. He/she should have faith and just keep going come what may. I personally feel that it is my hard work that has always overpowered my hard luck. Strive towards your goal as one way or the other, you will emerge the best of yourself out of your circumstances.

**Q3. According to you, how important are sports and cultural activities in a student's life? Do you think your extra-curricular activities in college help you in your professional life in any way?**

Although academics are integral part of a student's life, one should never neglect extracurricular activities. They are indispensable to a person's overall development and leading a positive life. My personal experience has made me realize that participating in sports and cultural activities teach a person a diverse set of values which can never be grasped in a closed lecture hall. For instance, the rush of excitement, working under pressure, behaving as a team and playing fair are some of the things which one can truly experience only outside the realm of academics.

**Q4. How, according to you, has the curriculum at IIT Ropar helped you in your studies/job?**

IIT Ropar, through its robust curriculum, has nurtured me into a competent engineer from ground up. The focus on strengthening the fundamentals in the junior years and slowly infusing advanced topics as I climbed up the undergraduate ladder, while at the same time making me acquainted with a myriad of topics not core to my specialty albeit important, has given me the necessary breadth and depth with which I can be successful in all my professional endeavors post college.

**Q5. Please give some suggestions to make our college and student life at college better. Is there something new which should be added as an important part of curriculum/college life at IIT Ropar?**

To be honest, one thing I find being somewhat marginalized when I was in college was emphasis on the importance of research and higher studies post B.Tech. I felt, especially in CSE, that students are more concerned with placements rather than capitalizing on the premium exposure of an IIT and taking it further with research in their field of interest. I think that there is still scope of improvement in the curriculum through which student can be exposed to the wonders of research and at the time, can be motivated that they too are capable of bringing about such marvels.

**Q6. What advice you would like to give to the students at IIT Ropar?**

I firmly believe that every student of IIT Ropar has the potential to accomplish remarkable deeds not just as a professional but also as an individual. My advice to the students at IIT Ropar is that they should never give up and follow their passion against all odds. There lies infinitely many opportunities before them. All they need to do is have the patience, perseverance and the unwavering dedication to grab them.

**Q7. Please summarize your stay at IIT-Ropar in a sentence?**

IIT Ropar has taught me to appreciate myself as an individual by providing me with the most important thing in life - Self-Worth.



## AMOGH AGRAWAL

**Q1. How is your professional life/further studies different from college life? Is there a significant gap between these two and if yes, how do you feel these can be bridged?**

Higher studies are more research oriented. Since these are specialized, it's more to do with the depth of knowledge in that field, unlike undergraduate classes, which focus on breadth. Yes, there's a significant gap. Working in a research environment is quite different than the undergrad experience. Problems are not well defined; you need to think of problems and their solutions as well. Classes are more detailed and concept based, and there's competition as well (which is good!), since every student in class has a desire to learn. To bridge this gap, the most important thing to do is to facilitate understanding and learning

as opposed to final grades. Due to the current system, students just try to focus on doing well in their exams rather than enjoying and understanding the concepts. My suggestion would be to ask the faculty to include projects/extra-reading in all courses, if possible. This would help students appreciate what they learn and would also allow them to apply it, and most importantly enjoy it.

**Q2 .How important are consistent efforts throughout a student's stay at college?**

Well, as per my experience, being consistent saves you a lot of last minute stress. If you plan early and study consistently, there wouldn't be any problem during exams/interviews. By the end of second year, everyone should roughly decide their future goals/career.

**Q3. According to you, how important are sports and cultural activities in a student's life? Do you think your extra-curricular activities in college help you in your professional life in any way?**

Yes, absolutely. Sports, cultural and extracurricular activities play an important role in an overall personality development. They not only help your leadership qualities, but also help improve your interpersonal skills, apart from being a feather in your resume.

**Q4. How, according to you, has the curriculum at IIT Ropar helped you in your studies/job?**

Having a strong foundation and clear concepts is an absolute essential for an engineer. Curriculum of IIT Ropar had a vast breadth of courses covered in Electrical engineering. I happened to take all EE courses that were offered to us, which helped me decide my areas of interest. Also, the internships gave me a good flavour of research. They were really exciting, which led me to continue with my higher studies and research.

**Q5. Please give some suggestions to make our college and student life at college better. Is there something new which should be added as an important part of curriculum/college life at IIT Ropar?**

Follow your dreams, participate in all activities in huge numbers, and try to make as many extra-curricular clubs as possible. The more interest you guys show, easier it will be to justify adequate sanction of funding from the authorities. Moreover, since the new campus is opening soon, you guys will live a completely different life altogether, with new facilities and challenges!

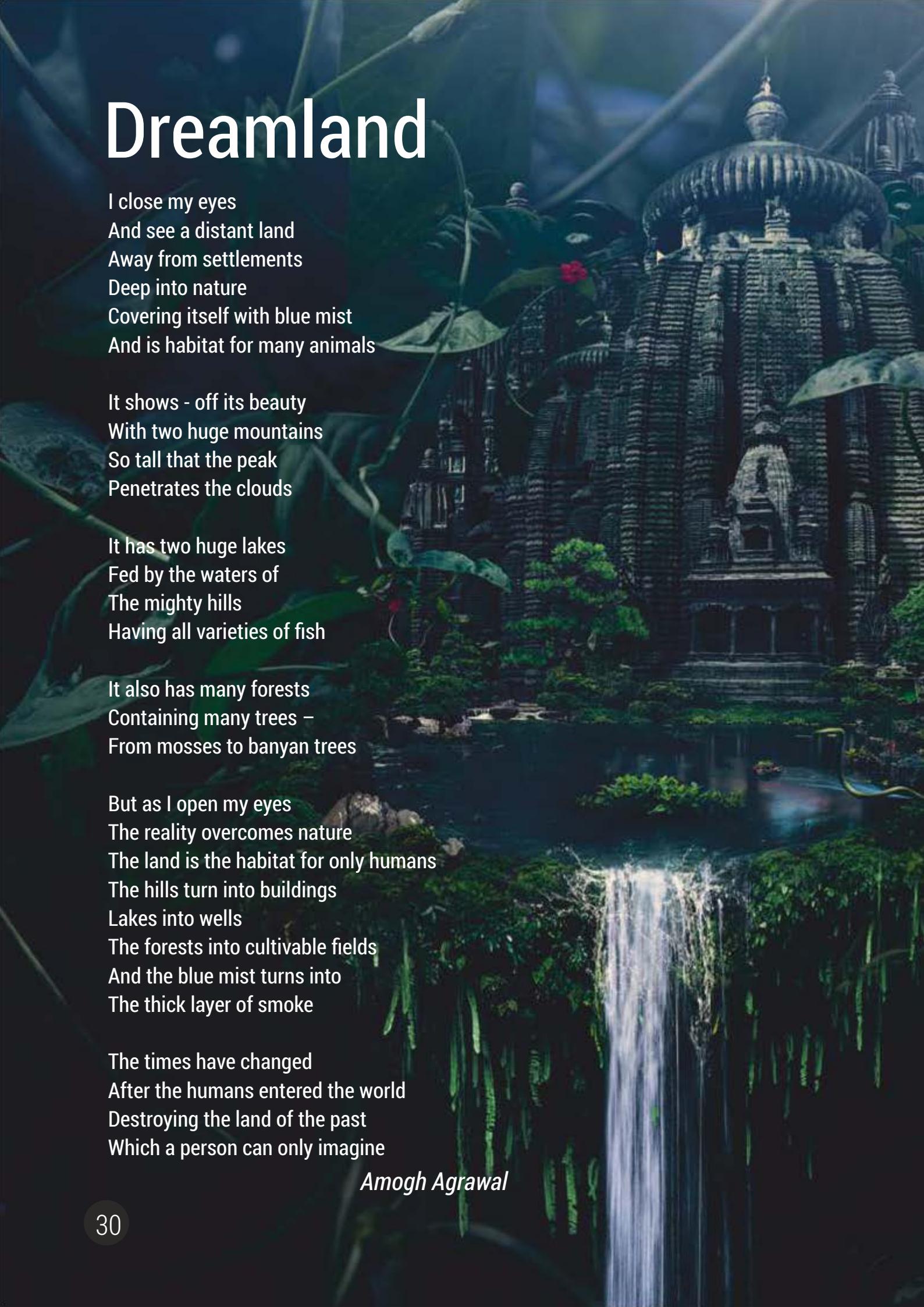
**Q6. What advice you would like to give to the students at IIT Ropar?**

Just enjoy every moment of your college life. Study hard and party harder. Life will never be the same again – be it job or higher studies. The friends you make here will remain forever. In the end, just remember that IIT teaches you to be a good human being first, being a good engineer is up to you.

**Q7. Please summarize your stay at IIT-Ropar in a sentence?**

A beautiful fusion of knowledge, fun and friendships. Those were THE BEST AND THE MOST ENJOYABLE days I spent. I'd give anything to get them back.

# Dreamland



I close my eyes  
And see a distant land  
Away from settlements  
Deep into nature  
Covering itself with blue mist  
And is habitat for many animals

It shows - off its beauty  
With two huge mountains  
So tall that the peak  
Penetrates the clouds

It has two huge lakes  
Fed by the waters of  
The mighty hills  
Having all varieties of fish

It also has many forests  
Containing many trees –  
From mosses to banyan trees

But as I open my eyes  
The reality overcomes nature  
The land is the habitat for only humans  
The hills turn into buildings  
Lakes into wells  
The forests into cultivable fields  
And the blue mist turns into  
The thick layer of smoke

The times have changed  
After the humans entered the world  
Destroying the land of the past  
Which a person can only imagine

*Amogh Agrawal*

# Wild

At dusk, in the sky  
Were beautiful birds  
Flying gaily in their own worlds  
Fishes swimming, deers running  
Preparing to sleep with sun's setting

As darkness enveloped the grounds  
Birds stopped chirping  
Insects started croaking

Animals were frightened  
From the predators, who, in ambush  
Wait for their hunt

Sun again rises for the ones  
Who escaped the dangers of the wild  
Birds again have fun  
Herds migrate in single file

Animals enjoy with a sigh  
When sun shines bright in the sky  
To forget the dangers of the wild

Amogh Agrawal



*[Signature]*  
22/10/2015





*Harmandeep*



# MirrornomiM

I looked into the mirror this morning  
It is usually very neat and clean, but is not today  
Why, what happened?  
Did someone spill something on it by accident  
Or Is it not happy today  
Is there something in my eye?

I like to believe that I like myself  
And I like looking at my reflection in the mirror  
But then why I am always looking so hard  
I am still scrutinizing every detail through that dirt  
on its surface  
But I can't look through it properly today  
The imperfections are difficult to spot  
I guess I won't be crying over them then

What if I don't clean the mirror  
Then maybe I won't cry ever  
But, I thought I liked looking at myself  
And then it really hit me,  
No I didn't  
I only liked the idea of people liking my look  
I liked how presentable I had become  
I looked forward to the compliments I would get  
I hid my differences and fought to fit in  
Why are the things I am proud of, the so called  
differences, so pushed aside, nearly crushed

And today when I can't point out those differences  
I am still looking for them  
After all they are a part of me and once, long ago, I loved them  
Until survival overshadowed living  
Until they were singled out mercilessly  
As if they can never be a part of something "meaningful"  
And my unwanted square pegs have always been stomped since then

Why is it so difficult to make room for the different  
Why do we become the ones crushing our own dreams  
Why do we look into the mirror with everyone's eyes  
Are my own eyes so incapable to decide the right and wrong

For all this time, whenever I was not looking at me  
This mirror was only looking at me  
I think it didn't like what I was looking at  
This thin layer of dirt will now have to wash away  
And the patronized image I was putting on show for the world  
It's just a morning, it's the same mirror, a little dirt on the towel and better me.

*Vaibhav Chauhan*



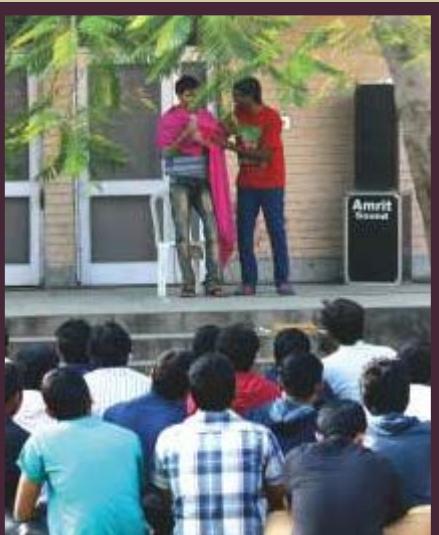
# Vaisakhi Celebration





# Ganesh Chaturthi





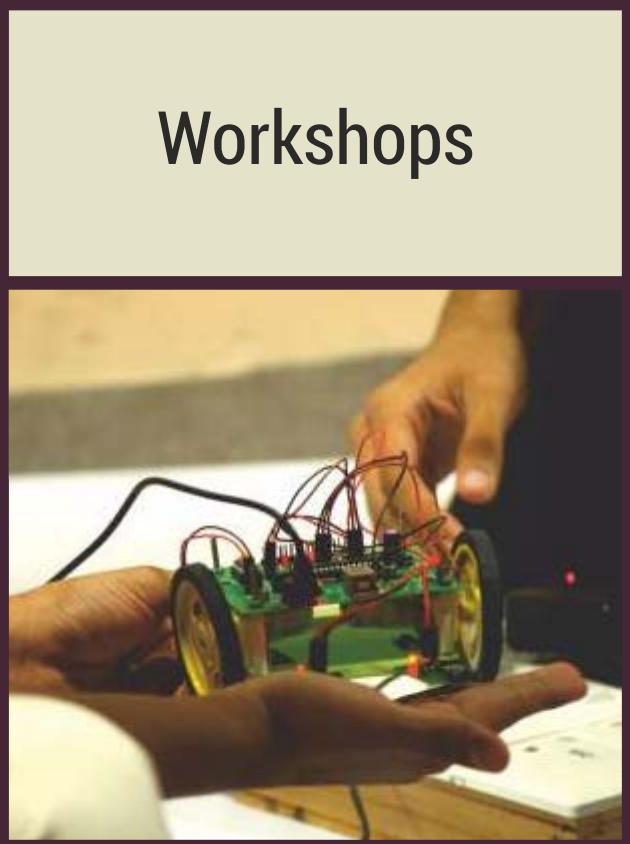
## Diwali Celebration



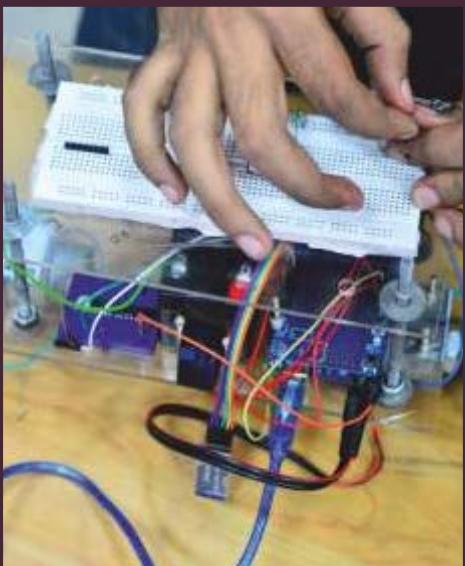
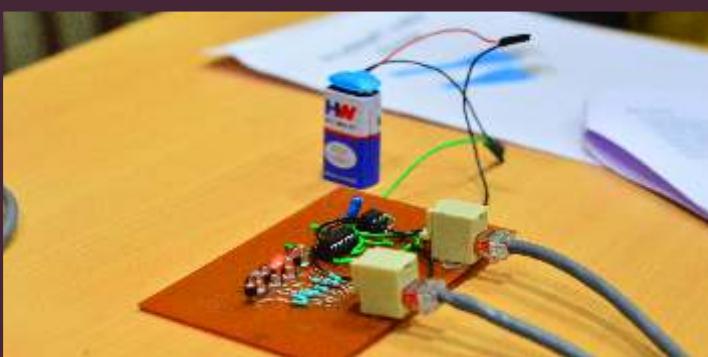
# Lohri Celebration



# Workshops







# Student Activities





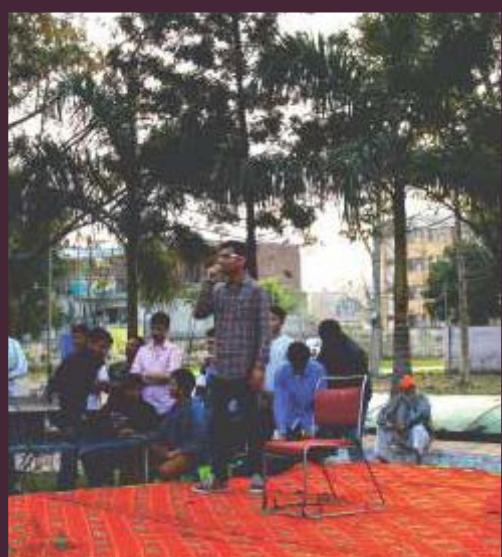




# Zeitgeist

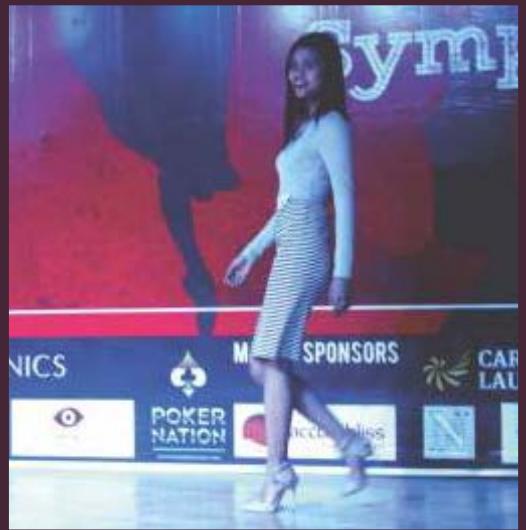
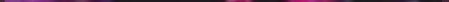


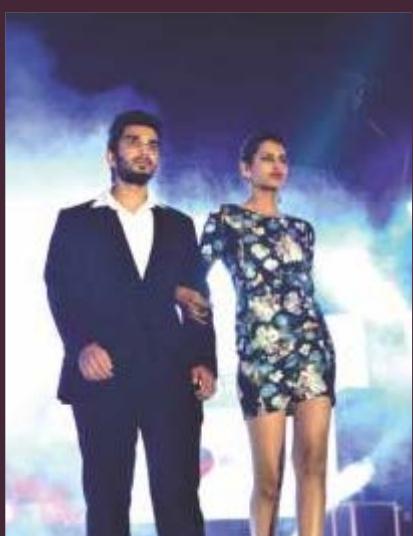




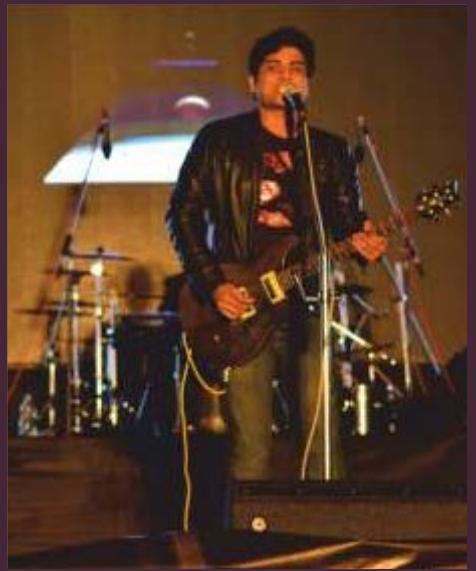




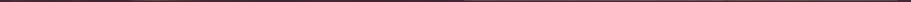
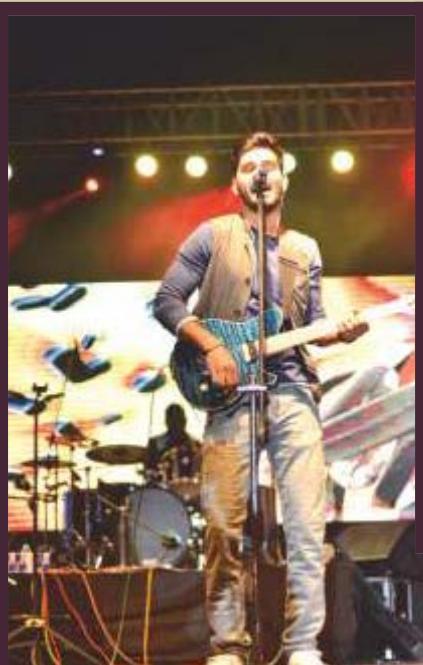


















The only  
journey  
is  
**the One**  
within.  
-Rainer Maria Rilke





**INDIAN INSTITUTE OF TECHNOLOGY ROPAR**  
Nangal Road, Rupnagar, Punjab - 140001 (INDIA)

**भारतीय प्रौद्योगिकी संस्थान रोपड़**  
नंगल रोड़, रुपनगर, पंजाब - 140001 (भारत)

