

# **B.T.K.I.T**

# Bipin Tripathi Kumaon Institute of Technology









#### **Government of Uttarakhand**

Department of Technical Education 04-Subhash Road, New Building, Uttarakhand Secretariat, Dehradun

#### Message



I am glad to know that the Magazine Committee of Bipin Tripathi Kumaon Institute of Technology is bringing out the student's annual magazine **"KISLAYA 2020-22"** which has been a long awaited. As you know, the holistic development of the College's students goes beyond classroom teaching or any structured/formal education system. Thus, any

such attempt, made to offer multi-pronged opportunities to its students, thereby further helping them to grow and realize their true potential, is always welcomed. This Magazine **"KISLAYA 2020-22"** provides a platform to students for their creativity, self-expression, learning experiences and even an identity they will be proud of through accepting the challenges of writings. Such an opportunity assumes importance in today competitive age, wherein the young generation seems to be caught up into the much attractive and addictive social media and networking challenges. However, this cannot be a substitute for the human mind engrossed in thinking, exploring and constantly introspecting for themselves and their surroundings. This magazine will provide its readers with ability to delve into and appreciate new voices, at times radical expressions and opinions of the budding poet, writers and essayists. All contributors and students deserve congratulations. I hope all students will also feel inspired and motivated to build up their writing and presenting skills. I look forward to all students reaching new heights in their respective fields and making our college a proud institution.

I congratulate the entire Staff, Faculty and Editorial team for bringing together this edition of the magazine.



#### VEER MADHO SINGH BHANDARI UTTARAKHAND TECHNICAL UNIVERSITY वीर माधो सिंह भण्डारी उत्तराखण्ड प्रौद्योगिकी विश्वविद्यालय

Dr. P.P. Dhyani Vice Chancellor डॉ॰ पी॰ पी॰ ध्यानी कुलपति

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Message

It is a matter of great honour and immense pleasure for me to know that Bipin Tripathi Kumaon Institute of Technology, Dwarahat is going to publish annual Magazine **"KISLAYA 2020-22".** Bipin Tripathi Kumaon Institute of Technology is a strong believer and practitioner of the dictum "Knowledge is Power"

Bipin Tripathi Kumaon Institute of Technology has been on the path of delivering quality education by developing human resources with ethical and moral values to boost the students' leadership qualities, research culture and innovative skills. It is built on a sprawling 155 acres college, with lush greenery and scenic hills. This 'temple of learning' has excellent and state-of-the-art infrastructure facilities conducive to higher teaching-learning environment and research. The main objective of the University is to provide higher education of global standards and so accordingly all the programs are designed to meet international standards. Highly experienced and qualified faculty members are continuously engaged in the maintenance and enhancement of student-centric learning environment through innovative pedagogy form the backbone of the University.

I offer my best wishes for the bright future of the college and successful publication of

"KISLAYA 2020-22".

(Dr. P.P. Dhyani) Vice Chancellor VMSB Uttarakhand Technical University, Dehradun



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#### **Message from Director'Desk**



I feel elated speaking that publication of **KISLAYA 2020-2022**" Magazine, a long awaited effort, is going now to be completed with efforts of the Bipin Tripathi Kumaon

Institute of Technology Magazine Committee. It will open the opportunities of writing

skills for the students. Really it will be a forum where the students will get chance of cultivating mental agility skill by flourishing their mental faculties with write-ups based on essay, poems, articles, etc. It will pave a gap lying between rational and creativity of the life. A technocrat, with amalgam of both rational as well as creativity skills, can contribute to inclusive progress of any country. So that is purpose of Magazine to instil the creative skills along with rational into students. All contributors and students deserve congratulations. I hope that students will also feel inspired and motivated to have this amalgam of creativity and rational skills. I look forward to all students reaching new heights in their respective fields and making our college a proud Institute.

I congratulate the entire Staff, Faculty and Editorial team for publication of this edition of the Magazine.

(Prof. Satyendra Singh) Director

#### **Magazine Credits:**





#### correction and Editor



EE 1st year

Data

Collection



GAURAV GOSWAMI

#### ANKIT SHARMA



#### ADARSH PAL

# THE FUTURE WORLD

#### **INTRODUCTION**

A future world fair which combines the technology of present and styles of the past will definitely help in promoting global peace and globalization. The earth today is home to six billion humans. With such an increase in population, one can only expect the depletion of earth's natural resources with the surge in the demand from it's inhabitants.

This eventually causes many environmental consequences and people face severe problems such as pollution, land degradation and also global warming. So in order to overcome these problems, future world fairs must focus on green technologies which can help to conserve the environment. Such fairs can play a vital role in conserving natural resources , flora and fauna. Steps must be taken towards negating the impact of industrialization. By focusing on recycling, water purification, environmental remediation and renewable energy sources, most of the problems can be resolved. Energy sources ought to be cleaner and thus, prevent any damage to the environment.

In the future, global warming will be a major concern. The reduction of greenhouses gases and pollution will become a necessity. The anti-war movement will require to be executed properly with strict rules and regulations, and proper governance . Nowadays, internet has ignited a new revolution for human beings. Today, the new generation of devices are being introduced to access information, data, stats, facts etc. With all the technological advances happening all around, one can surely hope for a better future if the necessary steps are taken by using the advances for a good cause.

#### FEATURES OF FUTURE WORLD

1. Safe and easily accessible technology.

- 2. Clean energy and environment.
- 3. Quality education and health facilities.
- 4. Adequate nutritious food and ample potable water facilities.
- 5. Conventional use of 3R's (Reduce, Reuse, Recycle).
- 6. Continuous electricity and power supply.
- 7. Solid structure of roads and buildings
- 8. Proper transportation facilities.
- 9. Pollution free environment
- 10. Strict governing body.

Future world fairs must be a balanced combination of current world scenario and envisaged scenario . The focus must be on environment and new technological advances which can help in sustaining the environment and human development. This will also bring a better future where everyone will be living a peaceful and prosperous life without having to worry about conflicts and warfare.



Neeraj Tomar Civil Engineering First Year

#### POEM WHY GOD MADE TEACHER



When God created teachers He gave us special friends To help us understand his world And truly comprehend The beauty and the wonder Of everything we see And become a better person With each discovery

When god created teachers He gave us special guides To show us the ways to grow So we can all learn how to choose What's right instead of wrong? To lead us o that we can lead And learn how to be strong'

Why god created teachers, In his wisdom and his grace



Was to help us learn to make our world

A better, wiser place'.

Neeraj Tomar Civil Engineering First Year

### **BITTER TRUTH**

When a person leaves this world, immediately their clothes, their bed, all the things used by them are removed from the house along with them. But sometimes someone does not want to leave the wealth earned by them, their property, their money, their jewelry behind them. But that is also snatched from them by pulling the necklace around the neck and gold ring from their finger. This shows what their relationship was with others .But the virtuous charity earned by you, your name cannot be snatched from you. The dry wood pyre was circumambulated, set ablaze and once Kanchan's body got burned, all that was left were ashes and no one came near. So friends, do such deeds that after your death people speak highly of you and use your name as a good example. Not because of your money but because of your deeds and mind.



Amit Singh Chamyal Mechanical Engineering First Year

### **MY JOURNEY TO BTKIT**

A boy from Bihar comes to Uttarakhand with his brother to take admission into BTKIT. During his journey the boy was very disappointed because his performance in JEE wasn't that good to get admission in NTT or IIIT. But his brother who is an ex- BTKITian advised him to never let his potential down, and just focus on these things.

- 1. Problems are not stop signs, they are guidelines. Means , what you have done while preparing for JEE. First of all you should recognize the problem i.e. why your performance was not up to your expectation . Take problems as guidelines and come up with solutions.
- 2. While pursuing engineering, almost every student waits for the last night before the exams to arrive to revise their whole syllabus. This is something you should avoid; it means to identify whatever the problem is and work towards the solution. Overall, don't depend on the clock and do whatever it takes and keep moving.
- 3. Don't regret anything. Explore yourself. Find your area of interest, expand your knowledge dimension and for this you should remember this quote ,

"Not knowing when the dawn will come,

I open every door"

Now his journey is over and while entering BTKIT, he takes a deep breath filled with enthusiasm and starts a new journey i.e. journey of experiencing the life in BTKIT.



Aayush Kumar Computer Science Engineering First Year

### **O MY DEAR BTKIT**

O My Dear BTKIT I thank you for the knowledge you impart I always play in your heart For me you are a great shield You build my character pure I pledge to serve you sure Hear, hear what students say You are the rising day make us great ... You are our nation's pride...



Pragya Chauhan Computer Science Engineering Final Year

### **4 YEARS IN BTKIT**

When you are raised and pampered in the hands of a prestigious Institution then getting yourself adapted in the roots of BTKIT campus is nothing less than fighting a war with your limits and becoming an engineer with huge loads of experience and memories to cherish throughout your life will be your victory.

Coming as a fresher, (1) Ragging (2) Scarcity of water (3) New place new challenges all these circumstances serve enough to block you from moving ahead but once you cross the boundaries then I promise you a roller coaster of some adventurous experiences, some unforgettable memories and some eternal friendships are gonna pave your way to make the BTKIT experience as one of your best life experience.

Restrictions, boundations, rules and regulations are something that can always obstruct you from doing something for and in the college but scoring a goal without goal keeper is never fun, and if you are just gonna have fun with tea then you can never tase the expensive champagnes, that is why in order to become and do something you always need to break the ice.

Not the one of the best campus but if you have that will to become something then you have to be best by yourself. Surrounding are just a supportive cast, you should always know that you are the protagonist of your own film

It's never easy to live and settle and enjoy yourself in a remote area like Dwarahat but I promise you

Ek Baar Aake Dekho Aur Us Gane Jiske Bol Hai "Mera Dil Kahi Dur Pahado Mai Kho Gaya" Apko sab Sach Lagegi.

Maybe You won't get a CCD in Dwarahat but promising you having a coffee Date at Ganga Canteen is the best time you gonna ... have... here.

Maybe You won't get a Multiplex here But watching a movie on a Laptop Screen with 10 of your friends is best.

Maybe You won't get to get in a 5 Star here But Tanya fast food is a 7 star for Dwarahat.

And a day can never start without eating Parantha's at Sandy Da / Nar Da Ki Canteen.

And KD' Da's Chai is the best tea you gonna have in your life.

Zayada Kuch Nahi Hai Yaha But Jitta Hai Tumhe Yaad Bahut Aayega.

Kyuki College Chota Ho ya Bada IIT Ho ya BTKIT memories toh Bahut Deta Hai.

And Each one of you will always miss your College Days.

Thank You BTKIT for a book of cherishable and unforgettable memories for life.





Yash Goyal Civil Engineering Final Year

#### **BEAUTY OF LIFE**

When in deep emotions,

A pampered hand on your shoulder...

Secretly heals the hidden unbearable wounds...

When you are busy handling intolerable situations,

One person who comforts...

Makes those movement colourful, peaceful.

When one chases their dreams.

And they are on their way to get fulfilled...

That paramount happiness.

If seen by aesthetic black moon, He also starts

glowing faster to show you further path soon...

He glows his moonlight pretty much good...

One sees always a tranquil,

Within them, But when a person overcomes

Them...

They must have observed,

The real face of ... This beautiful life ...

There is always twilight...

Around one's own life ...

Only need,

To open, their internal eyes...



Everywhere beautiful souls, pretty lives...

One has to only erase from themselves...

The habits called lies, the habits called jealousy vibes...

Then only might this world,

Will going to be the better place to live.

The better place to live...

Deepika Mishra Civil Engineering Third Year

### **WHAT'S STOPPING HER?**





Ankita Sharma Computer Science Engineering First Year

#### I KNOW YOU'LL SURVIVE THIS TOO I KNOW YOU WILL HAVE TO

It's OKAY ! If you bend down and cry hard I know you must have tried , tried so hard It wasn't your mistake , nor your choice Neither you're supposed to have faults or a voice And now,

Maybe, it's one of those nights again

Somethings they break , can't be together when in pain...

A part of your soul dies, right there at the moment And, for the rest of your life, you die and lament.

But,

I know you will survive this too

I know you will have to.

The hands may disappear , the scars will never

The demon is there right inside you

And you will have to live with that forever.

I know they took something from you which Wasn't meant to be,

I know you want to live alone forever,

But that isn't all what I see.

They stole something very important to you

And they left something , that is someone but not you

••

And from here the process starts.. You get taken away from you



One, who was full of life was taken away from you Hope shatters and lives thrash and thence, Gracefully, The basic question of living gets taken aw

And somewhere, The known you fights hard inside The unknown smiles bright outside.. Believe me when I say ;



You don't have 2 faces, but you have two lives to hide.

And you know,

Death is easy or maybe it's the simplest Suddenly, everything becomes right and You are the one left noblest.

And I swear I remember, There was once a time before, When all you had were words and emotions, and, Now all you have is.. A burden to live and handful of questions, But, I know you will survive this too I know you will have to

I believe in YOU.

#### Note to oneself:

Life isn't easy cause it cannot be, but I know you will survive this too. I know you will have to.



Ankur Singh Bisht Computer Science Engineering Third Year

### **UNTITLED SHE**

Hey dear me !

I'm a girl of 17

peers of mine belongs to he

and here I'm blessed with a she.

She knows how to hide her emotions

when she cries

She says she's strong

but she lies

she's a little chaos, a little forever

a bit of poetry, a symphony of love

She's the exact poem I always wanted to write

The perfect color I wanted to paint

When she writes

she pours the bled out emotions of hers

onto the piece of paper

Not the pen, not the wand

She holds her heart in her hand

She's an art without an artist

A 2am person but not a lover

None can see the sadness her laughter covers

she's got a heavy heart, a messy soul,



a reckless mind that she beholds

Her silence carries the music that a heart full of love can listen

Her eyes bear the pain that a mind with understanding can see

Her soul manifests the beauty that only solitude can touch

She's imperfectly perfect in herself

But Love made her wild .

Chetna Bisht

Computer Science Engineering First Year



# **TRUE LIBERTY**

We Indians are proud of our heritage and are considered as one of the most intelligent people but still we are far from gender equality. Firstly we should ameliorate our thinking towards girls and should change the orthodox nature towards them. If this will happen then our country will become the best and the most developed nation in the world. Women's freedom is the sign of social freedom . If she is able to make her decisions, express herself without any restrictions, then our nation will become more loveable. Freedom is to let her choose and decide what she wants to do in her life, girls are more stronger then men, because they easily handle their monthly cramps with a beautiful smile and positive attitude mostly.

Women like Kalpana Chawla, PV Sindhu, Mc Mary Kom, Phogat sisters and so many more are the pride of our nation . So give a chance to them, be supportive and help them in becoming independent and strong.



Harsh Raj Civil Engineering Third Year

# <u>APPLIED ARTIFICIAL INTELLIGENCE &</u> <u>MACHINE LEARNING FOR VIDEO</u> <u>CODING AND STREAMING</u>

Video content is all around the Internet ranging to our smartphones, desktops, and smart TVs. The massive amount of data streaming every day on the Internet presents challenges such as buffering issues, privacy or content violations. Artificial Intelligence (AI) can help overcome these challenges by video compressing, real time cataloguing, natural language processing and monitoring social media for privacy or content violations. Today's streaming technologies have grown so wide that anybody can stream a video, you only need a phone and a connection to the Internet. This makes it difficult to control the streamed content. Also, there are technical issues, in the form of large video files. We can solve these challenges by enhancing video compression with artificial intelligence technologies.

In today's scenario the people using social media have grown a mentality of sharing practically everything which can lead to privacy violations, such as the livestreaming of crimes and infractions. This is especially problematic when such type of material goes viral. Social media platforms try to monitor and control the content published by users, to avoid privacy issues. For example, Facebook often relies on the report feature and its team of reviewers. However, this is not enough to filter the massive numbers of streaming videos published every day. Object Detection can be a way to Protect Users' Privacy. Object detection is made possible by deep learning models for image recognition and processing. These models scan images and videos, detect objects, and classify them according to the model's knowledge base. For example, you can train the algorithm to recognize humans, different types of buildings or cars. Companies such as Facebook and Google are applying this technique to identify problematic content in images and videos. Object detection software generates digital signatures for troubling content, then blocks it from being uploaded again.

Secondly, buffering issue is a major problem faced by people. Adaptive Bitrate can be a method to overcome buffering issues. Adaptive Bitrate (ABR) is an algorithm that handles sudden variations in the bandwidth. The algorithm can adapt the resolution of a video to the current bandwidth without stopping the video, eliminating buffering issues. Adaptive bitrate does not adjust the resolution to the content being streamed by depending solely on the bandwidth, it does not make the necessary distinction to provide high-quality images.

To be truly effective, it needs to differentiate between scenes that require more resolution and others that requires less. Deep Learning Quality Enhancement can be used to overcome the loop holes of ABR. Deep Neural Network (DNN) covers the gap left by Adaptive Bitrate. The DNN can take into account the streaming content, through the process of looking at the entire video, and then deciding what quality is needed at any given moment. It also takes into account the computing power of the streaming device, such as the user's smartphone. The DNN thus ensures that users get the highest possible quality for any given situation.

Artificial intelligence can be used in video compressing, real time cataloguing and natural language processing to enhance video streaming. Modern video compression software leverage AI for video compression automation. You can use automation to save time on tasks such as video compression. This technology enables you to compress videos while uploading to the cloud. You can also use machine learning and predictive models to optimize live video encoding. The first step requires training the algorithm by feeding test panels into it. This part of the process is done offline. The goal is to create a predictive model, which is then fed into an encoding system. The system then applies one of three types of predictive dynamic encoding models to optimize the bitrate, the resolution, and the frame rate. Because of the fast rate at which videos are spread, streamers require real-time cataloguing. This means categorizing the content according to set parameters to improve user experience. Social media apps such as Tik-Tok leverage AI to personalize content, serving users with the content most relevant to them. Other companies, such as music streaming companies apply these algorithms to suggest content similar in rhythm and style to what the user is listening to. Natural Language Processing (NLP) is a subset of AI that enables computers to understand and process human language. NLP is used in audio descriptions, live transcription and captioning. The goal for a computer is to achieve the same level of language understanding as a human.

We are just at the beginning of the applications of AI to video streaming, especially to live streaming. Cataloguing, identifying objects, and recognizing faces are tasks that should be managed by AI machines in the future. Artificial Intelligence along with machine learning and deep learning can help solve issues, ranging from privacy violations to enhancing the quality of the user experience. With the proliferation of video streaming, AI solutions will soon become a widespread standard.

Jitendra Singh Bisht Electronics & Communication Engineering Third Year

### **VLSI TECHNOLOGY**

The concept of Very-large-scale integration (VLSI) is a part of semiconductor and communication technologies. It is a collection of integrated circuits on a single chip, the first semiconductor chips that held one transistor. The microprocessor is a VLSI device. It involves implementation and designing of Circuits providing computational speed with minimum power dissipation and circuit board area. Very Large-Scale Integration (VLSI) describes about semiconductor integrated circuits which composed of hundreds of thousands of memory cells logic elements. It is the technique of implementation circuit designing that provides computational speed. Therefore, this technique provides less area/volume. Hence compactness, less testing requirements, less power consumption, higher reliability due to improved on-chip interconnects, higher speed, due to significantly reduced interconnection length, and significant cost savings.

The development of microelectronics spans over a time which is even lesser than the average life expectancy of a human, and yet it has seen as many as four generations. Early 60's saw the low-density fabrication processes classified under Small Scale Integration (SSI) in which transistor count was limited to about 10. This rapidly gave way to Medium Scale Integration in the late 60's when around 100's of transistors could be placed on a single chip. It was the time when the cost of research began to decline and private firms started entering the competition in contrast to the earlier years where the main burden was borne by the military. Transistor-Transistor Logic (TTL) offering higher integration densities outlasted other IC families like ECL and became the basis of the first integrated circuit revolution. It was the production of this family that gave impetus to semiconductor giants like Texas Instruments, Fairchild and National Semiconductors. Early seventies marked the growth of transistor count to about 1000's per chip called the Large-Scale Integration. By mid-eighties, the transistor count on a single chip had already exceeded 1000's and hence came the age of Very Large-Scale Integration or VLSI. Though many improvements have been made and the transistor count is still rising, further names of generations like ULSI are generally avoided. It was during this time when TTL lost the battle to MOS family owing to the same problems that had pushed vacuum tubes into negligence, power dissipation and the limit it imposed on the number of gates that could be placed on a single die.

VLSI chiefly comprises of Front-End Design and Back-End design these days. While front- end design includes digital design using HDL, design verification through simulation and other verification techniques, the design from gates and design for testability, back-end design comprises of CMOS library design and it's characterization. It also covers the physical design and fault simulation.

VLSI is dominated by the CMOS technology and much like other logic families, this too has it's limitations which have been battled and improved upon since years. Taking the example of a processor, the process technology has rapidly shrunk from 180 nm in 1999 to 60nm in 2008 and now it stands at 45nm and attempts being made to reduce it further (32nm) while the Die area which had shrunk initially now is increasing owing to the added benefits of greater packing density and a larger feature size which would mean a greater number of transistors on a chip. As the number of transistors increase, the power dissipation is increasing and also the noise. If heat generated per unit area is to be considered, the chips have already neared that of the nozzle of a jet engine. At the same time, the Voltage scaling of threshold voltages beyond a certain point poses serious limitations in providing low dynamic power dissipation with increased complexity.

The number of metal layers and the interconnects be it global or local also tend to get messy at such nano levels. Even on the fabrication front, we are soon approaching towards the optical limit of photolithographic processes beyond which the feature size cannot be reduced due to decreased accuracy. This opened up Extreme Ultraviolet Lithography techniques. High speed clocks used now make it hard to reduce clock skew and hence putting timing constraints. This has opened up a new frontier on parallel processing. And above all, we seem to be fast approaching the Atom-Thin Gate Oxide layer thickness where there might be only a single layer of atoms serving as the oxide layer in the CMOS transistors. New alternatives like Gallium Arsenide technology are becoming an active area of research owing to this.







Jitendra Singh Bisht Electronics & Communication Engineering Third Year

### LIFE OF A STUDENT

We learned, Life is race That everyone has to face.

> Full of struggles, hardships and Swamp of complicated ways. Life is a race.



To get success, and to Archive our aim, we have to chase

> But why determination, creativity And enthusiasm cool down by age. This fills my heart with grief and disgrace. Life is a race.

The time we lost never comes back, By worship and prayers. We feel that time, locked us in a cage.





By determination and motivation, We may raise our hope. We can still do better, Because this life is an amazing case. Life is a race.

> Saurabh Kumar Civil Engineering Third Year



### **JOURNEY OF LIFE**

I just finished ruining one more friend,

My views on life made me out stand.

We were on the same boat, the port was also the same,

Difference was the path taken and my own pain.

It was good to hear you admire me,

Now we are apart and sails are set free.

We won't be friends, we won't share same stories,

We are apart as two distant trees.

We will share our experiences as memories,

Trees are shedding their leaves don't worry.

You are still the better sailor,

Our destiny was written by god's favour.

We had some sweet some bitter time

I regret my decision trust me I am not fine.

Please pick up my , call stay on the line,

Give one more chance please don't mind.





#### Mello Civil Engineering First Year

### THE BALLAD OF A FACADE

For long enough I have been stalling it; But today, I finally stepped out of my house, For being in the company of my own thoughts; Was causing a sheet of compunction to cover me, For what I had done to myself; Even after being aware of the consequences,

I am enthralled by the rain; That is trying to cleanse my soul, And my tenacity doesn't allow me; To stop myself from moving forward, I take a look around, There are droplets everywhere,



The conviviality that the scenery offered, for a minute; Made me forget the palisade of thoughts, The thoughts as dull as a rainbow; The thoughts as colourful as clouds; The thoughts as dark as the day; The thoughts as bright as the night,

But then as soon as I blink for once,



The reality in front of me is all but gone;

Polished gemstones are sparkling in the sky;

The darkness fails to dim the glow,

From the slumber, my twinkling eyes arise;

To gaze the bright beauty over yonder,

Crystals of light reflect on skin, The magic of pure white glistens, Like a lake crisp and clear, The night sky is full of glowing spheres, The spheres are staring right into my soul; As if implying "You belong with us",

They slowly watch my eyes as I capture sterile images; Enduring demented sequences observing "The life of the weak", My mouth silent of words, of sunshine, of silence, Bearing the rage that comes out of my lips, closed by chance, My ears listen to the noises of an invertebrate and deaf funeral; That expires in the foolish screams that my body gives,

My hands firmly touching the forms as they evolve towards the sunset; And touch between their fingers the shadows in a seemingly squalid way, My brain adulterated by data that in its inertia undecidedly flies; That delved at times into reality, and in it's famished reasoning, purifies me, Now that I am purified, I am able to comprehend reality; And rightly so, I realise pain and suffering is what keeps us alive,

But now, I have come at terms with the fact; That I can't deceive myself anymore,

I did believe that I could ameliorate;

The effect the contemplation had on me, but its merely a facade,

In the end, what you just read is not a soliloquy;

Its merely \*The Ballad of the Facade\*.

Yash Wardhan Joshi Electrical Engineering Third Year

# THE FRIEND

".....But are you sure about this?" L said.

"I am as sure as I have ever been and as I will ever be!".I replied.

"Ok, I get it, you are upset about how all of it rolled out for you. But Hey! Don't blast on me fam!"

"I am sorry for that and thanks for tolerating me and being there for me through thick and thin".

"It's alright. I know and I got you."

I started going out for morning walks recently. Well, needed something to get out of my reality that had me into the pits of darkness, dragging me constantly into it. It was a fine Saturday morning. A little bit of raindrops could be observed all around, for it had rained the previous night. The sight was a soothing glimpse for sore eyes. For the past couple of years I've been nothing but the walking definition of broken friendships and loosened bonds. But L was always there, I don't even remember how I met him. I don't even bother thinking about how we met, I'm just glad at least I have someone by my side.

"So, how have you been lately?"

I was, for some reason, little annoyed by his question, so I replied in the most bland and emotionless way possible.

"What kinda silly question is that? You know me better than I do, Do you really not know what my answer would be?"

"Fair enough, Fair enough! But I still want you to share the stuff that had been happening with you for the past few days, I've noticed you are getting agitated more easily lately."

"I know you are trying to help me but I would like to share this secret with me only!"

"Who are you truly? Batman?"

I chuckled. It was a much needed chuckle that I've been looking for quite a long time now.

"No, unfortunately, I'm not. It's just that when I open up, people interpret the story according to how they think of me already, just as they mistook \*Every breath you take\* for a romantic song!

L was about to say something but suddenly he stopped. He closed his eyes anything from you. Just try to listen closely to the \*Peaceful noises\*."as if he was concentrating on something.

I was getting weirded out by it and curious about it at the same time. So I took a bold step and broke the silence.

"What is it?"

"Shhh!"

"Hey, stop it! You know I hate it when people hide things from me." "No dummy, I'm not hiding

- **Pe**aceful noises is what L and I call the sound produced by the chirping of birds, of crickets, the clicking sounds made by beatles, the rustling of leaves, the ferocious swishing of wind, the list is never ending, but you get my point?!And indeed there were those sounds, even though a bit faint but still a calming essence to the soul. I took a few deep breaths and started to focus on them.
- Right before this very moment, my thoughts were as restless as a 2 year old, trying to grab and grasp everything, ending up getting nothing. But at that very moment, I was just in that moment only, nothing but the thoughtless void and the \*Peaceful Noises\*.It was so intense that I entered a state of torpor. Only then I experienced for the first time what people refer to as peace, or rather ecstasy.
- All of a sudden I was shaken out of the trance that had totally consumed me, that I wanted to never come out of. It felt like someone was calling out my name. Just as I was about to look for who it was, L said something, but I couldn't comprehend it at that moment. I looked towards where the voice was coming from. It was John Doe. He lives in my neighbourhood, so I walked up to him and we exchanged greetings. Then all of a sudden he said something really weird, really bemusing!
- "I've been looking at you for a good minute now. It felt really strange, who were you talking to? There was no one there with you!"
- I was quite taken aback by that to the point that I didn't know what to do or what had just happened. After 20 seconds of pure silence, I spoke.
- "What do you mean? I wasn't alone."
- Then I gave him that confused smile where I wasn't totally aware of what was happening.
- "I was talking to....."
- I said as I looked towards where L and I were sitting. To my utmost surprise there was indeed no one there. It was the strangest thing ever. Rolling my eyeballs vigorously, I looked for L here and there, but he was nowhere to be seen. I didn't know what to say. But I had to stabilize the situation because John was quite confused too and was staring at me. So I continued after a long pause.

".....I was talking to myself only. Don't they say one is his own best friend?"

I didn't even know what was I talking about!

"Yeah......That is quite right", said John in a very uncomfortable manner, giving me a weird look as if I was a sasquatch.

Well, I somehow ended the conversation and both of us departed on our own ways.

- I went on to look for L, still no trace of him. I looked for him for ten full minutes, but alas, I couldn't find him. Then all of a sudden it came to my mind what L had said that I couldn't comprehend at that time.
- "My name L stands for \*Loneliness\*,Your very good friend, Your very own, YOUR LONELINESS."
- Then it hit me that I was lonely all along, but at least for the time being I have L by my side and I know, at least he won't leave me.....

Yash Wardhan Joshi Electrical Engineering Third Year

# <u>"Exams आ रहे हैं पढ़ ले भाई</u>"

पेपर आ रहे हैं, पढ़ ले भाई हर तरफ़ से ये आवाज़ आई Class में teacher ने डाॉंट लगाई घर पर मम्मी ने अलग सुनाई किताब खोलते ही नीींद आई तुरींत ही मम्मी की आवाज़ आई



पापा ने सबुह की मस्त नीींद उड़ाई कहकर चले गए "जल्दी उठकर करो पढ़ाई" हाथ दखु ने लग गए ललख-ललख करी पढ़ाई जब खदु notes की copy बनाई

अब तो लगती है ऐसी पढ़ाई जैसे बच्चों को लगती है कड़वी दवाई भववष्य की सोचिर ऐसी शक्तत आई कि चार घींटे लगातार करी मेहनत से पढ़ाई जब सवाल ने दीमाग की दहलाई किताब फें कर ओड़ी रजाई



Teacher को तींग करि खबू मौज उड़ाई अब internal marks की tension सताई

छोड़ी पढ़ाई, WhatsApp, Insta और social networking sites चलाई

इस तरह से पूरी छुट्दटयााँ बबताई

जब exams ने tension बढ़ाई तो कह दिया अब कल से होगी पढ़ाई कल-कल करते अब exams की date sheet आई बस अब तो भगवान ही बचाए भाई



अब तो ददल से भी आवाज़ आई "Paper आ गए अब क्या करेगा भाई"



Lalit Arya Electronics & Communication Engineering Third Year

#### <u>पुका</u> ज

छिड़ा समर रणभूमि में डर कर सैनिक है घर में अरि सम्मुख भी न जाये इतनी न शक्ति नर में

> माता भय से भीत है लगता सुत वापिस न आयेगा प्रेम बड़ा ही दैन्य है अब पिता उसे समझाएगा



रोक रही क्यों तू हे माता अपने राज दुलारे को वीरगति हो प्राप्त अन्यथा विजय प्राप्त हो प्यारे को



रणचंडी खड़ी है रण में लेकर कर में मुंड माल रथ के कंपन से मिलती अब कवच - भालों की सुर व ताल

जो ढूंढ रहा तू विजय सरीखी उसको न तू अकाम देख

बिना कर्म हारे भी न कोई शेष जीत का दाम देख

> डरता क्यों मृत्यु से अपनी न रुकी न रोक कोई पाया है वही संभालेगा अब तुझको जिसने तुझे बनाया है

क्यों सोचे तू खुद को निर्बल बल नहीं तुझ पर अतिबल है वर्तमान की सोच हमेशा देखे यहां कौन कल है

> समझ रहा क्या तू खुदको क्या समझ जगत को पाया है क्यों कर्म कर रहा इस पल तू क्यों तू इस जग में आया है

क्यों भरा रुधिर है अंगों में क्यों बहती जल की धारा है क्यों माने हार कर्म बिन तू क्या एकमात्र यह चारा है

> गीता उपदेश सुनाया जब माधव ने कुन्ती लाल को नहीं भीष्म क्या समझ रहे थे दुर्योधन की चाल को

हरि एक क्षण में तोड़ सकते थे रावण के अभिमान को हरि एक क्षण में हर सकते थे असुर कंस के प्राण को

> कर्म श्रेष्ठ है सर्व विदित है फिर भी क्यों पथ से हटते हो महादेव का करलो सुमिरन फिर देखो कैसे डटते हो

मेघ धरा वर्षित करते बूंद बूंद जल सारा पीछे हटकर इस रणभूमि से क्यों साबित होते नाकारा

बूंद बूंद घट भरता बूंद बूंद सागर बनता समष्टि से परिवार बने परिवारों से ये जनता

> इस जनता का एक शासक जो चुना तुम्हें लड़ने को जनहित सर्वस्व लूटा दो क्या जीने को मरने को

यह रक्त गर्व का रंग है सुत इससे न तुम घबराओ ये विजय मृत्यु का पल है अब इससे ना तुम शरमाओ

> मैं पिता तुम्हारा नहीं दुखित हूं तुम्हें वीरगति को देने से दुखित होता हूं रणभूमि में सुत के पग पीछे लेने से

उनकी मृत्यु पर शोक नहीं



सैनिक मतवाले मेरी रक्षा करने को मृत्यु पा जाने वाले भारत माता के रक्षक तू अमर अजर अविनाशी तुझसे ही रक्षित भारत रक्षित भारत के वासी

# <u>जीतना बाक़ी है</u>

जीतना बाकी है खुद की बुराइयों से मन की गहरायिओं से पर कैसे ये सोचना बाकी है जीतना बाकी है

और तो जीते लगते हैं खुद पर दुख ही दुख है लगता सबको ऐसा ही है की औरों पर सुख ही सुख है क्या छोटा दुख क्या बड़ा उस दुख से निकलना बाकी है जीतना बाकी है



# <u>जाने किधर मैं जा रहा</u>

मुसाफिर हूं मैं मंजिल का भटकना काम मेरा है वो चाहे सूर्य तपता हो या फिर वो घुप अंधेरा है

इच्छा की कश्ती है मेरी जिस और चाहूं ये चले गहरा ये सागर है बड़ा हर बूंद में सपना पले मिलते किनारे लक्ष्य के तो चाल भी मेरी बड़े लहरों के बांध भी अधिक गिरि सदृश हैं जो खड़े आरंभ था किस छोर से अब ये भी ना दिख पा रहा इच्छा की कश्ती है मेरी जाने किधर मैं जा रहा।

# <u>बात एक ही थी</u>

सुबह का उजाला, शाम का अंधेरा रात एक ही थी, पन्नों को पलटना, लिखे को समझना बात एक ही थी, ठोकर से गिरना, फिर खुद से ऊपर उठना यहां मैं पीछे रह गया, वही मैंने भी खाई, वही तुमने भी खाई मात एक ही थी।



Divyanshu Naugai Electronics & Communication Engineering First Year

# <u>असफलताओं पर विजय</u>

सफलता के पथ पर चलने के लिए असफलताओं का मुकाबला हमें करना ही होगा। सफलता कोई इतनी आसानी से थोड़ी मिल जाती हैं। रास्ते में न जाने कितनी बाधाएं मिलती है। हम ना जाने कितनी बार असफल होते हैं किंतु सच्चाई यह है कि प्रत्येक असफलता हमें कुछ ना कुछ जरूर सिखाती है।

"Failures are the steps meant for learning".

हममें से ज्यादातर कोई असफल होकर रास्ता नहीं छोड़ते , बल्कि असफलता के डर से रास्ता छोड़ देते हैं । कोशिश करने की भी जहमत नहीं उठाते । एक कहावत है - "लंबा सफर भी पहले कदम से शुरू होता है "। अब अगर हम पहला कदम ही न चलें तो मंजिल दूर ही रहेगी । अगर हमें सफलता का रास्ता तय करना है तो हमे असफलता की चिंता न करते हुए आगे बढ़ते जाना है । याद रखें –

".Effort is more important than the result "



Himanshu Chamkani Mechanical Engineering First Year


(1)

जब रूह मेरी ये तेरे बोझ से थक जाती है, एहसास की लौ ये और भी बढ़ जाती है, जैसे ही बढ़ता हूँ ज़िन्दगी की तरफ लेकिन, यह कमबख्त ज़ंजीर सी पाँव में छनक जाती है।।।।

(2)



मंजिल पाने की सोची है तो, उठकर उसे पाना होगा।। सोचा है कुछ कर दिखाने का तो, उठकर उसे पाना होगा।। हाथो पर नही लिखी होती है यू तकदीर किसी की, सोचा है तो, उसे भी उठकर ही पाना होगा।।।

(3)

रूठ रूठ के ए जिन्दगी कहां तक यूं भागोगी, छुपा छुपा के गम अपना कहा तक यूं भागोगी, मत रखना थोड़ा भी गिला सिकवा यूं मंजिल से अपनी, अंत में झुककर नही!! उठकर ही वापस आओगी।।।



Ganesh Singh Kuwar Mechanical Engineering First Year

## एक चुप आदमी

एक चुप आदमी कभी चुप नहीं होता बल्कि वह चीख रहा होता है , लड़ रहा होता है अपने अर्न्तमन में , वह भटक रहा होता है अपने मन के असंख्य विचारों के मध्य , वह थक रहा होता है एक आन्तरिक यात्रा से इसलिए अगर किसी रोज एक खामोश आदमी तुम्हारे करीब आए तो उसे सुनना , सुनना तब भी जब तुम्हारे कान बद हो चुके हों



Atharv Deep Civil Engineering Final Year

## दो लोग

दो लोग	जब मिलों तुम
जो साथ होते है	उन दो लोगों से
अच्छे—बुरे वक्त में ,	तो पूछना खुद से
दो लोग	ये दोनों कैसे हो
जो साथ नहीं छोड़ते	पायेंगें साथ ,
अच्छे—बुरे वक्त में ,	
तुम सोचते हो	फिर तुम मान लो
तुम एक हो ,	वो जो छोड़ जायेगा
वो दुसरा कहां है	वो गलत नहीं होगा
तुम नहीं जानते	वो बस अलग होगा
वो दोनो लोग	और अलग होने से
तुम्हारे भीतर ,	साथ नहीं छूटा करते

प्रश्न मात्र इतना है , कब तक तुम्हारे भीतर के दो लोग साथ होते है , तुम्हारे भीतर के दो लोग साथ नहीं छोडते



### Yogesh Nath Mechanical Engineering Final Year

### बचपन

सच कहूँ तो वो समय अब गुजर गया हमारे हाथों से वो हसीन पल निकल गया



वो समय जब हम सिर्फ खुश रहना चाहते थे अपने दिन सिर्फ हँस के बिताते थे

हमारे बातें पर सिर्फ अच्छाई छिपी रहती थी होठों पे मुस्कुराहट और दिल में खुशी रहती है

पर वा`अब हमसे रूठ कर गुजर गया हाँ दोस्तों वो बचपन ही था जो कुछ समय के लिए दोस्ती कर के हमसे बिछड़ गया

बचपन में सिर्फ हम खुद में व्यस्त रहते थे और अपनी ही धुन में मस्त रहते थे

बचपन में ना वो 1 रूपये की टाफी लाखों की खुशियाँ देती थी और वो सोनपरी में मिलने वाली अँगूठी तो मानों हमारे हँसी की वजह बन जाती थी और टीचर्स का आपकी हैडंराइटिंग में वैरी गुड दे देना आपकी खुशियाँ चार गुनी कर देती थी , वो इंटरवल की घंटी के लिए आखों का तरसना और वो छुट्टी की घंटी बचते ही पूरे दिन का बोझ हल्का हो जाना

> कितना शुकून मिलता था शायद आपको याद हो ,

वो छोटी –छोटी चीजों पर खुशियाँ मिल जाना वो छोटी –छोटी बातों पर मुस्कुरा देना

क्या समय था ,,,,,,,।

वही एक समय था जब हम ये नहीं सोचते थे कि लोग क्या कहेगे

बस हमें तो अपने आप में खुश रहना था और अपनी ही बातों को ऊपर रखना था

बस अपनी बात मनवानी थी ।

वो दोस्तो से मुलाकाते और वो प्यारी प्यारी बातें सब कुछ बीत गया और ये गुजरता हुआ वक्त हमसें जीत गया।

> हमको सारी हरकते पीछे छोड़नी पड़ी वो बचपन की उम्र वही राकनी पड़ी वो बेवजह खुश रहना छोड़ना पड़ा शायद जीगंदी जीने की कोई वजह मिल गई ,

> ये समय ही है जिसने सब कुछ कर दिखाया अपना निर्णय खुद ले सके इस काबिल बनाया

लेकिन क्यों

माँ पापा का हाथ छोड़ खुद के पैरो में खड़े हो गये हम और न चाहते हुए भी पता नहीं क्यों बड़े हो गये हम ।





### Saurabh Kohli Civil Engineering Third Year

ऐ परिश्रमी न तू थक न तू रूक बस आगे बढता जा ये जमाना तेरा इंतजार कर रहा है तुझे कोई रोक नहीं सकता ये मंजिल तेरा इंतजार कर रही है ये सारा समाज तेरा साथ दे रहा है तू जीतेगा , तू जरूर अपनी मंजिल को पायेगा क्योंकि तेरा परिश्रम ही तेरा साथ दे रहा है ना किसी के रूकाए रूकना है ना किसी के आगे झुकना है बढते जा बढते , चले जा तू सारी कठिनाइयों को पार कर रहा है तूझमें हिम्मत है तू आसमां को जमीन पे ला सकता है तू सारी कायनात को हिला सकता है बस तू ही है वह जो पूरी दुनिया को मिला सकता है तूने अपने परिश्रम से सफलता के झडे गाड़ दिये हैं बस एक काम बचा है सबको साथ लेके चलना है बस तू ही है वह जो अपने परिश्रम से सबको साथ करा सकता है ऐ परिश्रम बस तू ही जो जाति धर्म को भुला कर इंसान को इंसानियत सिखा सकता है

आज इंसान इसानियत भूल गया है



मरो मारो पर उतर आया है

बस तू ही है वह जो

इन्हें साथ रहना सिखा सकता है

क्योंकि तेरा परिश्रम ही वह हथियार है

जो तुझे इन तमाम कठिनाइयों से पार करा सकता है ।

Gaurav Goswani Civil Engineering Final Year

## <u>हिंदी भाषा</u>

हिंदी मेरा इमान है

हिंदी मेरी पहचान है

हिंदी हूँ मैं वतन भी मेरा

प्यारा हिंदुस्तान है

बढ़े चलो हिंदी की डगर हो अकेले फिर भी मगर। जन—जन की भाषा है हिंदी, भारत की आशा है हिंदी। जिसने पूरे देश को जोड़े रखा है, वो मजबूत धागा है हिंदी । जिसके बिना हिन्द थम जाय ऐसी जीवन रेखा है हिंदी । सरल शब्दों में कहा जाय तो जीवन की परिभाषा है हिंदी।

सभ्य देश था, सभ्य वेश था सभ्य हमारी भाषा है । बनी रहे अपनी यह पूंजी हमारी यही अभिलाषा थी । हिंदी अपनी राष्ट की भाषा यही अपनी पहचान है ।

> करते है तन मन से वंदन जन–गण –मन की अभिलाषा का



अभिवंदन अपनी संस्कृति का अराधना अपनी भाषा का।

Dharu LingwalComputer Science EngineeringFirst Year

## <u>रिटर्न टिकट</u>

रिटर्न टिकट तो कन्फर्म है इसलिए मन भरकर जिएं मन में भरकर ना जिएं छोड़कर शिकायत शुकिया अदा कीजिए जितना है पास पहले उसका मजा लीजिए चाहे जिधर से गुजरिए मीठी सी हलचल मचा दीजिए उम्र का हर एक दौर मजेदार है अपनी उम्र का मजा लीजिए क्योंकि



Vasundhara Negi Electrical Engineering Final Year

## कॉलेज के कुछ पल

आज हम अपने कॉलेज की बाते करते है , जिसे हम जिंदगी भर याद रखते है , कुछ ही महीनें पहले तो स्कूल छोड़ा था , नया–नया बिoटीoकेoआईoटीo से नाता जोड़ा था , पता नहीं यह कॉलेज को बातें कैसे व्यां कर पाऊगां, अपने कॉलेज को बातें आप तक पहुँचा कि, नहीं पहुँचा पाऊँगा , जब आया था तो अकेला अकेला रहता था हर पल, जब तो सोचता हुँ कौन सा क्लास बंक करूँगा कल, कुछ दोस्तो के साथ यादगार बना रहा हुँ यह पल , हाँ, जानता हुँ मैं बन जाएगा यह हमारा गुजरा हुआ कल ,

चार साल के लिए ही तो आए हैं ,

एक निकल गया बचे हुए 3 भी निकल जाएंगे,

जब भी कभी लिखने बैठता हुँ तो सोचता जरूर हुँ की क्या सच्ची हम कालेज छोड़ने के बाद मिल नहीं पाएंगे ,

लिख देता हुँ हर दिन कि वो शैतानिया जो हम करते है ,क्लास मे बैठे ,क्लास के खत्म होने का इंतजार जो हम किया करते है,

क्लास से बाहर आते ही आइस –कीम की सोच लिया करते है,

पैसा ना हों तो फिर मैकेनिकल विभाग के बाहर पानी पिया करते है,

हाँ जानते है हम,गुजर जाएंगे यह पल ,इसलिए हम इन्हें दिल से जिया करते है,

कितना अच्छा लगता है क्लास बंक के प्लान बनाना,

क्लास बंक कर गंगा केंटीन में जाकर आइस–क्रीम खाना,

टीचर के पुछने पर वो बीमारी होने का बहाने बनाना , कॉल पर दोस्तों को शायरी सुनाना,

दुःख जितना भी हो , वो उनकी बाते सुनके मुस्कुराना ,दोस्तो के फोटोस् देखके दिल



मुस्कुराता है,

पर मिल ना पाएंगे कभी ,यह सोच के दिल टुट सा जाता है,कालेज के दोस्तों के बिना जिदंगी बेकार सी लगेगी,

उन दोस्तों के बिना जीत भी हार सी लगेगी ,पता नहीं दोस्तों के बिना मुस्कुरायेंगें,

हाँ कालेज के यह दिन बहुत याद आएंगे।

Aayush Kumar

**Computer Science Engineering** 

First Year

## बि.टी.के.आई.टी की कहानी

एक B.T.K.I.T नाम की बस्ती है, यहाँ सिर्फ सीनियरस् की चलती है । कभी Scintilla तो कभी SAVI के तड़के लगते हैं, टीचर्स से कोई नहीं, सब सीनियरस् से डरते हैं। समझ के ऊपर है सारा syllabus बस attendance पूरी करते हैं, बगल में बैठे प्रेमी तो नागिन की तरह डसते हैं, किसी से कुछ पूछो तो हजार नखरे करते हैं, जैसे कुछ बताने में यह मरते हैं। Semester एक गुजर गया, जो डर था वो भी सारा उतर गया। Semester के Exam में सारे पास हुए लड़कियाँ बनी पारो तो लड़के देवदास हुए। सिलसिला यह कुछ ऐसा चल पड़ा , हर कोई इश्क में आगे बड़ा । कुछ को इश्क में आगे बड़ा । कुछ को जिदगी समझ आती है , और कुछ करने की ठान ली जाती है। अगले दिन एक लड़की कालेज में आती है, फिर वो future देखने वाली आँखे भी सो जाती है। पहले आँखे से इशारे,फिर बात हुई कुछ बैठे C.P. में तो,कुछ की कैंटीन में शुरूआत हुई । देश के हालात पे तो दंगे हुए, होस्टल में लड़कियों को लेके जो पंगे हुए ।

वो सिर्फ मेरी है ,मुझसे करती है,



#### वो तो मुझे खोने से भी डरती है ।

आँखे तो तब खुली जब पता चला वो सारे होस्टल के लड़को से बातें करती है। हमें पूछ रहे हो हम क्या करते हैं ,

हम तो उनके लिए तालियाँ बजाते हैं। हम कहाँ लड़कियों की बातों में फसते हैं, हम तो मजे लेते और हँसते हैं।

#### Abhishek Kumar

Computer Science Engineering

First Year

दोस्ती बाँसुरी से निकलता हुआ मधुर संगीत है दोस्ती ही ,हर मरहम का इलाज भी है। दोस्तो संग ही सुख है , क्योंकि दोस्त हर दुःख में संग है , दोस्तों बिन जिन्दगी वीरान है, जैसे पतवार बिन नाव है, दोस्ती दो दिलों को जोड़ती है, जो बड़े दुःखों को तोड़ती है । मिलते है जो अजनबी बनकर फिर वही हमारी जिन्दगी बन जाते हैं, दुनिया के सभी रिश्तों में सबसे खास है दोस्ती, दोस्ती कर लो अपने माँ –बाप से भी तो स्वर्ग है जिन्दगी " दोस्तो ना हो तो जिन्दगी वीरान है। दोस्तों से ही जिन्दगी खुशहाल है ,,





### Nikita Raj Mechanical Engineering First Year

### <u>एक नया सफर</u>

कुछ दोस्त बनेंगें और कुछ यादें बनेंगी। थोड़ा सीखेंगे और थोड़ा सिखायेंगे, युँ ही चलते–चलते इस सफर में ये चार साल बीत जायेंगे। नन्ही सी आखों में , बड़े सपने लिए हम सब अपने घरो से दूर आये हैं, मन मे एक संकल्प लिए अपने माता पिता के सपने पूरे करने आये हैं। अपनी कुछ पुरानी यादों को साथ लेकर हम यहां नयी यादें बनाने आये हैं , अपने शिक्षकों से ज्ञान अर्जित करने आये हैं उनके दिखाये रास्ते से अपनी पहचान बनाने आये हैं। कुछ हंसी के पल होंगे तो कुछ गमों के पल भी , पर यू ही दोस्तो के साथ हॅसते –मुस्कुराते,

हम सारी परेशानियाँ झेल जायेंगें।।



### Nikita Raj Mechanical Engineering First Year

## शहर का जीवन

महानगर के रहने वाले बेटे से मिलने बापू-अम्मा आए, बीस मंजिल पर चढने से बहुत ही घबराए। चारों तरफ है कंकीट के जंगल पशु–पक्षी है बिसराएँ, बंद हवा और धूप देखकर मन ही मन पछताएँ। दरबे जैसे घर में बहू–बेटा बद पड़े, ताजी हवा के झोंके जैसे बीते दिन की बात हुई। पास में लेटा पोता राजा अंगूठा चूस –चूस चिल्लाऐ, जोर –जोर से रोता देखकर पाउडर घोल–घोल पिलाए । रोज सबेरे सब निकले घर छोड़कर साझ तक न लौटे घर छोड़कर , छोटा बबुआ दिनभर रोए झुनझुना देख –देख ललचाऐ दादा-दादी की है आंखे भर आई ,



जीवन के इस रूप को देखकर



सरहदों के रखवाले

जिन बेटों ने अपने प्राणदीप बुझा देश आबाद किया है , जननी का हाथ छोड़ मातृभूमि के लिए अपना सब कुछ कुरवान किया ,

शहीदों की जमीन है ये हिन्दुस्तान , बंजर हो सकती है पर कभी बुजदिल पैदा नहीं किया ,



ये मारना भी जानते हैं बचाना भी ,हाँ यही जाबाज उजाले हैं आँधियों के खेले बिजलीयों के पाले , गोर से देखों इन्हें ये भारत माँ के रखवाले हैं।

दिल का मामला है साहब जरा सम्भाल के ये मोबाइल के दोर के आशिक क्या जानें रखते हैं कैसे स्रतों पर अपना कलेजा निकाल के

एक सैनिक खड़ा है शरहदों और देख रहा है अपने दुश्मन की आँखों में और कहता है ,

दुश्मन को धूल कर देते हैं ,क्षण भर में जिन्दगी मौत के मुहाने लिऐ रखते हैं सरहदों पे , मजाल नहीं तेरी तू एक इन्च भी ले जाये मेरी सरहद का 10 गज तू खुद भेट कर देगा हमें ऐसा हाल तेरा कर देंगें ,

गुरूर करता हुँ गुमान रखता हुँ ,हिन्दू हुँ संग में मुसलमान लिए खड़ा हुँ तुझे क्या लगा डर गया मैं, गोर से देख सीने में अपने भारत माँ, पीछे करोंडों हिन्दुस्तानी लिये चलता हुँ

अपनी मातृभूमि से किया हर वादा मरते दम तक निभायेगें

एक कुरवान हुआ,100 फिर इस वतन की रक्षा में कुरवान होने आयेंगे,

हाँ जानता हुँ तू बेशरम है शांति से नहीं बैठेगा पर तू हमारी तरह हथेली पर जान लिये थोड़ी है, ये हिन्दुस्तान हमारा है तेरे बाप का थोड़ी है।

Ritul Pant Mechanical Engineering Final Year

कर्ण

#### यह कविता महाभारत के मेरे सबसे प्रिय पात्र सूर्यपुत्र कर्ण पर आधारित है

पांडवो को तुम रखो ,मै कौरवो की भीड़ से तिलक शिकस्त के बीच में जो टूटे ना वो रीड़ मै सूरज का अंश हो के फिर भी हुँ अछूत मै आर्यव्रत को जीत ले ऐसा हुँ सूत पूत मै कुंती पुत्र हुँ मगर न हुँ उसी को प्रिय मै आओ मैं बताऊँ महाभारत के सारे पात्र ये भोले की सारी लीला थी किशन के हाथ सूत्र थे बलशाली बताया जिसे सारे राजपुत्र थे काबिल दिखाया बस लोगो को ऊँची गोत्र के सोने को पिघला कर डाला सोन तेरे कंठ में नीची जाती हो के किया वेद का पठंतु ने यही था गुनाह तेरा ,तु सारथी का अंश था तो क्यों छिपे मेरे पीछे ,मै भी उसी का वंश था ऊँच नीच की ये जड़ वो अहंकारी द्रोण था वीरो की उसकी सूची में अर्जुन के सिवा कौन था

माना था माधव को वीर ,तो क्यों डरा एकलव्य से

माँग के अंगूठा क्यों जताया पार्थ भव्य है रथ पे सजाया जिसने कष्ण हनुमान को योद्धाओ के युद्ध में लडाया भगवान को नन्दलाल तेरी ढाल पीछे अंजनेय थे नीयत कठोर थी जो दोनो वंदनीय थे

ऊँचे ऊँचे लोगो में मै ठहरा छोटी जात का खुद से ही अंजान मै ना घर का ना घाट का सोने सा था तन मेरा , अभेद्य मेरा अंग था कर्ण का कुंडल चमका लाल नीले रंग का इतिहास साक्ष्य है योद्धा मै निपुण था अगर ना दिया होता वचन ,वो मैने कुंती माता को

।पांडवो के खून से,मै धोता अपने हाथ को साम दाम दंड भेद सूत्र मेरे नाम का गंगा माँ का लाडला मै खामखां बदनाम था कौरवो से हो के भी कोई कर्ण को ना भूलेगा जाना जिसने मेरा दुख वो कर्ण कर्ण बोलेगा भास्कर पिता मेरे , हर किरण मेरा स्वर्ण है वर्ण में अशोक मै,तु तो खाली पर्ण है कुरूक्षेत्र की उस मिट्टी में ,मेरा भी लहू जीर्ण है देख छानके उस मिट्टी को कण कण में कर्ण है



Arvind Kumar Computer Science Engineering First Year

## <u>यूँ ही नहीं कीचड़ में कमल खिलते है</u>

धमंडी कहती है यह दुनिया एक लड़के को जो किसी यादों का मारा है बहुत मेहनती था वो पर लोगों से देखा ना गया की वो कुछ पा रहा है थक चुका मतलबी दुनिया से वो बहुत जल्द इस मतलबी दुनिया को छोड़ जा रहा हैं कहता है हर पल अपने साथी को वो बहुत जल्द उसके पास आ रहा हैं क्या पता इन दुनिया वालों को जब यह अपने घर में खाए जा रहे थे । डस बच्चे के मासूम हाथ मजदूरी कर घर की जिमेदारियों को उठाए जा रहे थे । गलती सिर्फ इतनी की गरीब घर में पैदा हुआ वो और लौगो के ताने उसे खाए जा रहे थे अपने या पराए सब उसे सताये जा रहे थे एक माँ बाप साथ थे उसके जो कुछ न होने पर भी उसका साथ निभांए जा रहे थें भूखे रहे माँ बाप उसके पर लोगों को क्या वो तो भर पेट खा रहे थे उसके लिए तो दिन रात मेहनत कर दर्द से गुजर जाते रहे थे जब जरूरत थी अपनों की तो सब उसको ठुकरा रहे थे । बस मजिल की राह में वो अपने कदम बढाये जा रहा , बदल गए हालात तो हम अपने हैं तेरे सब उसे जताए जा रहे थे । चुपचाप सह गया वो सब कुछ पता था उसको वो अच्छे दिन ला रहे थे आज कोई भी अपना कहता है तो एक ही सवाल सबसे पूछता है तो उस वक्त कहाँ थे जब सब हमें सतायें जा रहे थे मेहलों में बैठ के खाते और ताने हमें सुना रहे थे खाना खाने को भी रूखा सूखा हम खा रहे थे फिर एक किसी के जाने पर वो टूट गया वो मंजिल की तरफ ले जाने

वाना राह भी छूट गया आज तक रोता है वो उसकी यादों में ढूढता है हर पल लिखके उसको किताबों में भगवान ना करे की इतना दर्द कोई सहे खुशियाँ मिले या ना पर कोई बच्चा अपने माँ बाप से दूर ना रहें कोई किसी के माँ बाप को कुछ ना कहें बस उसके जैसा दर्द ना कोई जिंदगी में सहे बहुत समय बाद उसकी जिंदगी में खुशियाँ आई थी , उनको भी लग गयी नजर और वो ही ना रही जो खुशियाँ लाई थी ।

समझ नहीं आता उसे किसी से वो क्या कहे दिल दुखता है उसको तो सोचता तो वो भी है की कोई तो हो जो उसे अपना दोस्त कहें दुख तो वो अकेले बचपन से सह रहा है ,बस उसी खुशियों में कोई उसको साथ रहे

दिल रोता तो है उसका भी कब तक अकेले तन्हाई में रहे सारी जिंदगी दुख सहकर भी क्यों अब तो दुख सहे।

कोन है वो जिसपे दिल भरोसा करे कोई तो हो उसकी तरह जो मुझसे साझा करे कोई तो चाहिए उसके टूटे दिल को ,जो दिल से उसको दोस्त कहे आखिर कब तक वो जिंदगी के यह दुख सहे।



भूखे नँगे लोगों को बस्ती से एक नई काहानी के साथ मिलते है ,

हम मेरी ही बस्ती की बातें है यह ,यहाँ कीचड़ में भी कमल खिलते है,

कुछ लोगों को कदर नहीं खाने को और मेरी बस्ती में हर कदम पर भूखे मिलते है ,

कोई हजारों का खाने के बाद भी खुश नहीं और यह खुश होते है जब खाने को रूखे सूखे मिलते है,

ना कुछ खोने को है,ना कुछ सोने को है फिर भी यहाँ दिल से दिल मिलते है,

हाथ नहीं फैलाता कोई किसी के आगे ,बच्चा हो या बूढ़ा जहाँ मेहनत से सब के हाथ शीलते है, यह गरीबों की बस्ती है यहाँ रोटी महंगी और गम सस्ते मिलते है,

यह गरीबों की बस्ती से निकला हुँ मेहनत से कमाकर ,यूँ ही नहीं कीचड़ में कमल खिलते है।

Pranab Sharma Computer Science Engineering First Year

## <u>कम्प्यूटर और गुरू</u>

विज्ञान एक महाशक्ति है जो रोज नए आविष्कार करता है ।

कम्प्यूटर का निर्माण भी इसके द्वारा हुआ है ।

मानव कम्प्यूटर को अपना ज्ञान बढाने के लिए प्रयोग में लाता है, लेकिन ज्ञान प्रदान करने का उत्तम साधन होते हुए भी , कम्प्यूटर गुरू की जगह नहीं ले सकता । गुरू का महत्व परमात्मा के भी अधिक है।

,, गुरू गोंविद दोऊ खड़े काके लागू पाय ।

बलिहारी गुरू आपने , जिन गोविन्द दियोय बताय"

गुरू हमारे जीवन में ज्ञान का प्रकाश भर देते है , जब विघार्थी परिश्रम की आँच में तपता है तक गुरू उसे पिघाला कर सोना बनाते है,यदि विघार्थी गुरू के ज्ञान का रस इकटठा करता है ,तो वह तपस्या रूपी जीवन से सफलता के शीखर पर चढता और लक्ष्य प्राप्त करता है ।

गुरू विघार्थी मे ज्ञान श्रद्वा और प्रेम की ज्योति जलाते है , अच्छे नागरिक बनने की प्रेरणा देते है , जो कम्प्यूटर के लिए संभव नहीं है ।

जैसे कंस बहुत ताकतवर बलपूर्वक लोगो से पूजा कराता था पर भगवान की जगह नहीं ले सका । उसी प्रकार कम्प्यूटर मनुष्य के सौ कार्य करे परन्तु एक गुरू का स्थान कभी नहीं ले सकता ।













## <u>Vinamra Sharma</u>

### **Computer Science Engineering Final Year**

Hey, I am a final year Computer Science undergrad from India. I love to explore new technologies, engage in research, write poems, talk to my machines and take part in hackathons around the globe.

Till now, I have won more than ten international events throughout the globe, including some of the most prestigious competitions such as the Annual Hackathon of MIT, University of California Riverside, Duke University, and more. Wrote more than six internationally published research papers with Two Best Research Awards.

I have started PERPLEXED to accomplish my dream of providing equal opportunities, free resources, and spreading learning among the people.

Recently, I have also Co-founded Vraft, a research project targeted at resolving the mental health issues faced by the world today. The project is currently at its very initial stage, where we are focusing on analyzing the situation more diversely.

I highly believe that "Advancement in technology is our today's investment for a better tomorrow", I also Co-Founded another startup that is targeted to resolve the issue of recycling and helps to reduce carbon footprint. Prakrit have won the national startup challenge and have received the incubation at STPI by government of India.

#### **Achievements**

- ➤ Won the annual hackathon of Massachusetts Institute of Technology(MIT), MakeMIT-2021.
- Selected in top 12 throughout the world in Harvard Type 1 Diabetes Hackathon.
- ➢ National Winners VAZCOE at IITB.
- Got my research paper accepted & published at Proceedings of Integrated Intelligence Enable Networks and Computing, Springer, Singapore.
- ➢ Received the Best Research Paper at IIENC-2021, Singapore.
- ➢ Won Best Green Hack Award at Bio Hack 2021, University of California, Riverside.
- Served as Mentor at Make Harvard 2021, Harvard University.
- > Accepted as Policy for the People Fellow, A Harvard University student-led organization.
- ➤ Won Hack TCMX-2021.
- Started Perplexed to promote technology and equal opportunities among students across the globe.
- ➢ Got another research paper published at Journal of Tianjin University Science and Technology.
  - Dunnar un at Sunantia Haalza hu Simplu Nauragaianaa
- ➢ Got Runner-up at Synaptic Hacks by Simply Neuroscience.
- Served as a Judge for TechTogether, Boston.
- ➢ Invited as Mentor for Bio Hack 2022.
- ➢ Won the annual Hackathon of Duke University, Hack Duke 2021.
- ➢ Got into Google Knowledge Panel for one month.
- > Co-founded Vraft for the purpose of resolving mental health issues in the world.
- ➢ Got Selected for Tree Hacks 2021 at Stanford University.
- Received Government Incubation and stipend for a recent startup Prakrit.
- > Accepted to University of Glasgow, Scotland for pursuing my Masters in Computing Science.
- > Total 8 Placement offers and highest package offer-22LPA from Sony India.



## <u>Jitendra Singh Bisht</u>

#### **Electronics & Communication Engineering 3<sup>rd</sup> Year**

**Interest Area:** VLSI, Embedded Systems, Semiconductor Devices, IOT, Computer Vision.

## "Do not go where the path may lead. Instead, go where there is no path and leave a trail".

Hello Everyone,

I am a third year Electronics & Communication Engineering student at Bipin Tripathi Kumaon Institute of Technology, Dwarahat. Being a VLSI enthusiast, till date I have won 2 hackathons and is currently working on 3 research papers related to Semiconductors. I love to explore new technologies involving myself in research activities in reference to which I have gained the practical experience during Various internships at DRDO, IIT Madras, IIIT Allahabad, IIIT Guwahati, ARIES, Ensino, BSNL, Connecting IT Technologies and NIELIT, mainly working in teams of Electronic engineers and supporting their Embedded System, IOT & VLSI efforts.

#### **Achievements**

- Research Intern at Solid State Physics Laboratory, DRDO.
- Selected as a Research Intern at BARC.
- Research Intern at IIIT Guwahati.
- Published a paper titled "Automated Home Safety and Surveillance" in "International Journal of Advanced Research and Publications".
- Paper titled "CMOS MEMS Fabrication Technologies" submitted for review. (ongoing)
- Paper titled "Design and Modelling of Hybrid Optical Amplifier for Broadband fiber optic Communication System" under work. (ongoing)
- Paper titled "Study of various Semiconductor materials" under work. (ongoing)
- Paper titled "Design and Modelling of GaAs Laser structure with 30% Al cladding in valence band and 70% Al cladding in conduction band with 8nm width" submitted for review.
- Secured 3<sup>rd</sup> position in "Analog IC Design" hackathon conducted by Synopsys and IIT Hyderabad.
- Secured 3<sup>rd</sup> position in "Mixed Signal Design" hackathon conducted by VSD and IIT Bombay.
- Finalist of "Design Verification" hackathon conducted by NIELIT, VSD and IIT Madras.
- Finalist of "EW Project Challenge 2022". (ongoing)
- Successfully Completed MHI & IIT Madras funded project "Remotely operated automated system for material and machine handling in hazardous environment".
- NPTEL Domain Scholar in "VLSI Design". (ongoing)
- Project Intern at IIT Madras.
- Summer Intern at IIIT Allahabad.
- Winter Intern at Aryabhata Research Institute of Observational Sciences (ARIES).
- Selected as the Review member for the Review Committee at IJRAR Journal.
- Selected for the Dissertation work at CSIR-IMMT, Bhubaneswar.



### **Pragya Chauhan** Computer Science and Engine

#### **Computer Science and Engineering Final Year**

I am a self-motivated and tenacious person. And I live by these lines –

"No matter what you're going through, there's a light at the end of the tunnel and it may seem hard to get to it but you can do it and just keep working towards it and you'll find the positive side of things."

### <u>Achievements</u>

- Scored 90% in "Electrical Quiz" conducted by Proudhadevaraya Institute of Technology, Hosapete.
- Selected for "**Ruby on Rails Placement Training**" conducted by Brainovision.

### Placement & Package

- "INFOSYS" for the Package of 3.6 LPA.
- "CLOUD ANALOGY" for the Package of 3 LPA.





### Himanshu Pandey AIR-1 in UPSC CDS

Electronics & Communication Engineering Batch : 2017 - 2021 Hello everyone,

My name is Himanshu Pandey, ECE, Batch : 2017-2021. I recently secured AIR-1 in UPSC CDS exam for IMA and INA and would be joining IMA, Dehradun soon.

My journey for all this started way back in 2017 with NDA

Examination, clearing the exam 4 times but no idea what stopped me from clearing the SSB all those times. Years went by and I reached the limit of attempts because of the age limit and now, I was left with the graduation attempts at my disposal. I don't know whether I took these rejections at that time as a challenge or what, but throughout the college, I introspected every step and action of mine and gave in whatever efforts I can to improve me as a person. Be it sports or extra curricular, I gave it my all and just enjoyed the process.

After graduation, I cleared the exam in my 1st attempt, got through the SSB but medicals got me that time. I was not able to join the academy after securing AIR-24 for IMA and AIR-13 for INA. This was the most helpless and disheartening phase of my life till date, but at last with my parents motivation and the never giving up spirit that we all picked up from BTKIT helped me to get through and I went for treating the issue.

It took 1 year into the treatment that I found myself here ready to go and join the academy but even this was with 1 conference out and another medical rejection for Indian Coastguard Assistant Commandant entry before this entry got cleared.

This is my story and all that I have learnt is to believe in myself and keep putting in efforts for the things you strongly feel for. Worst would be you'll be ending learning some lessons and becoming a better individual. For the best case scenario, you all know - Sky is the limit.

Today those 5 years, 11 attempts and B. Tech, all makes some sense to me. And I do owe

all this to a very high extent to BTKIT for making us strong believer in the fact that if we survived that place, there are no limits for us. Thank You.

## <u>S.A.V.I.</u>

### **Students Association for Verbal Interaction**



**S.A.V.I**. is the oldest club in the college. It was formed on 2<sup>nd</sup> of Aug 2000 by "Abhishek Purwar" & "Ashish Chandra." A successful run of 22+ years gave some honorable gems like Himanshu Pandey (CDS AIR 1), Shachi Pathak, Rudresh Dixit, & plenty others.

**S.A.V.I.** is an English personality development club. This encompasses the dynamic construction and deconstruction of integrative characteristics that distinguish an individual in terms of interpersonal behavioral traits with flabbergasted teaching methods and exercises.

It also helps to gain recognition and acceptance from the society as well as people around. Not just that ,S.A.V.I also provides guidance & counseling sections through the college alumni.



Yogesh Joshi, S.A.V.I President

In the first year under my friend's reference I joined S.A.V.I. I was flabbergasted by their teaching methods & exercises. A hunger of blaring curiosity broke into me. Regular group discussions, extempore & debates induced new strings of skills beneath me. S.A.V.I. allows to unlock the stored potential skills. It helps to build leadership potential and prepare us for a better future.

"I AM PROUD TO BE A SAVIAN & WILL MAKE OTHERS TO FEEL PROUD."



Jaishree Tewari, Student Mentor

We learn speaking before we can even write and still we tend to pay the least attention to it . Pen might be mightier than the sword but I believe that our words hold the power to start a war altogether! I joined S.A.V.I. back when I was in my first year and it has been an amazing journey since then. You make friends that constantly push you to grow and listening to other's views while you are trying to frame your thoughts into words trust me it does bring out the best in you!



Yugal Kumar, Student Mentor

S.A.V.I. is the best club of our college. Here, I learned the most important lessons of life from one of the best mentors of our college. SAVI provided me a stage to speak, positive surrounding and immense support from our seniors. I am very glad to be a part of this great family.



S.A.V.I. is an opportunity that allowed me to learn, to speak, to

volunteer, to improvise myself not only in vocal communication but as a person. I am obliged to be a part of it. And will contribute to keep the legacy of values and verbalness alive. Its not just a club, it's an emotion.

Panwar Shivani, Student Mentor



Ritul Singh, Student Mentor



Kunal Budhlakoti, Student Mentor

S.A.V.I. (Student Association for Verbal Interaction) has always served as a didactic and nurturing club for all it's members. I joined S.A.V.I. in my first year and since then S.A.V.I. has been a vital part of my college life, it not only provides an interactive platform for students but also grooms a student's personality in a wholesome manner.

Being a part of S.A.V.I. is like half of the job is done while undergoing the process to develop your personality, which is also the ultimate goal of S.A.V.I. Here via extempore, open discussion and debate not only can you improve your English but also the level of patience within you.



Neha Pokhariya, Student Mentor



Yuvraj Papnai,

The club makes me who I am. My life has been heavily influenced by my experiences at the S.A.V.I. Club. I have been involved with the club since I was in 1st year. It started on the 1st day of session during my 1st year with my extempore on topic black board and is still going on and have since adapted it as my second family. It really helped me to build strong connection with my seniors. S.A.V.I. offers the opportunity to gain social skills, communication skills, confidence and most importantly, gain more knowledge.

A good speaker isn't the one who speaks the most, rather a good speaker is the one who is done speaking before the audience is done listening.

#### Student Mentor



Shivani Sharma, Student Mentor

S.A.V.I. (Student Association for Verbal Interaction) is a club in BTKIT where students from various branches work together, to learn new skills which are not included in our Engineering Curriculum such as communication skills, public speaking etc. I am very grateful to be a part of this club. It not only improves my communication skills but also enhances my thought process and helps me to develop better personality.

## ELECTRICAL FEST IGNITRON 2.0

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## **SCINTILLA 2K22**









## SCINTILLA 2K22









# SCINTILLA 2K22









## **DJ NIGHT**





## FAREWELL 2K22





## FAREWELL 2K22





## **SPORTS ACHIEVEMENTS**



Amit Singh Bisht (Cricket) Mount Cup 2020 Man of the Tournament





Archana Negi (Badminton) at UTU Championship



#### Sachin Bisht (Volleyball) State Championship

Seema Nayal (Kabaddi) at UTU Championship



### Kabaddi Champions



## **BTKIT TOPPERS**

#### **HIMANSHU MELKANI**

Gate 2022 all India rank 12 Scientific officer at **BARC MUMBAI** Gold medalist in UTU

> Batch 2017 - 2021 **Civil Engineering**





### **KAVITA TIWARI**

Currently working as a GAT at Hindustan Unilever LTD Haridwar unit Gold medalist in UTU

Batch 2017 - 2021 **Chemical Engineering** 





