

ECE

ARTEFACTS

Chronicles of Technology, Talent, Innovation and Inspiration

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

7th

EDITION

2022

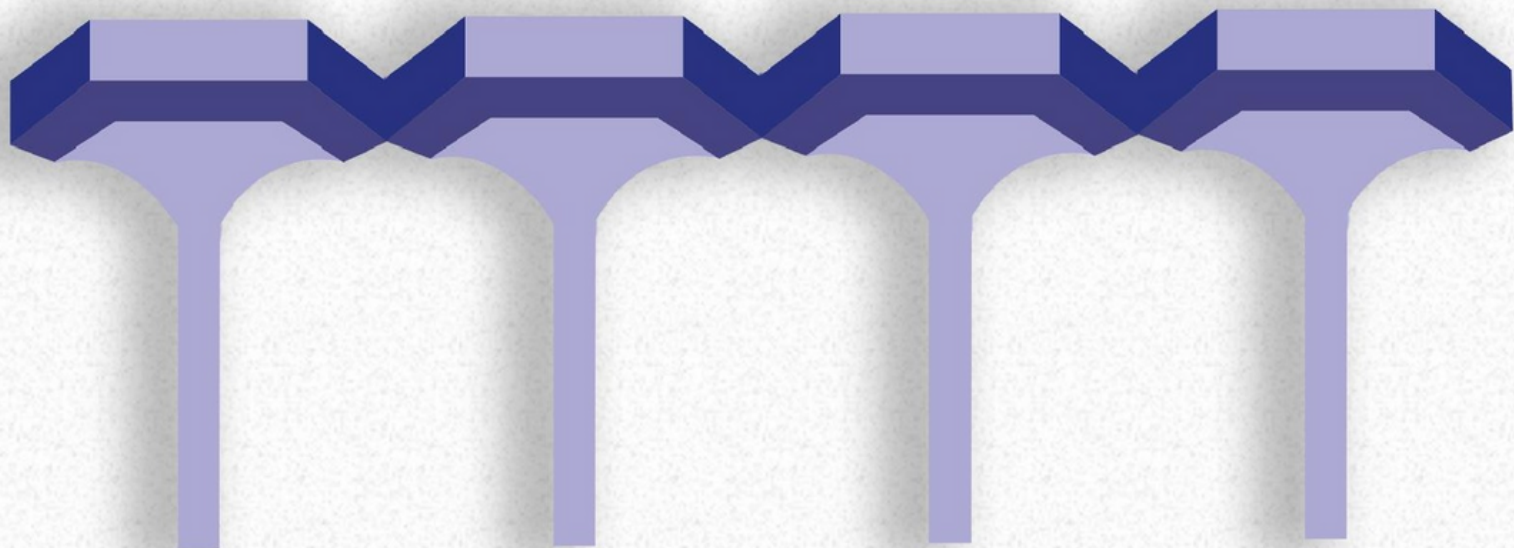
DEPARTMENTAL MAGAZINE

ARTEFACTS

Chronicles Of Technology, Talent, Innovation & Inspiration

TECHNO-CULTURAL MAGAZINE

SEVENTH EDITION, APRIL 2022



DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING



HALDIA INSTITUTE OF TECHNOLOGY

HALDIA, PURBA MEDINIPUR - 721657 (WB)

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ABOUT

About Institute

Haldia Institute of Technology (An Institute of ICARE, Haldia, Approved by AICTE, and affiliated to MAKAUT) began its journey in the year 1996. It is the first private and accredited academic institution catering technical education in West Bengal. The institute has an enclave campus of 43 acres of land having an administrative block of 3332 square meters with nine academic blocks having an area of around 20350 squares. There are 12 NBA accredited B. Tech courses and 5 M.Tech and MCA,MBA courses with 5200 student strength.

Haldia Institute of Technology is accredited by the National Assessment and Accreditation Council (NAAC) with an "A" grade, valid up to September 2021. Haldia Institute of technology ranked "163" among engineering colleges in India by the National Institutional Ranking Framework (NIRF) in 2020.

Department of Electronics & Communication Engineering

The Department of Electronics & Communication Engineering was established in 1998. National Board of Accreditation (NBA) accredited it in 2004,2007, 2018 and subsequently in 2007. Presently, the department has an intake capacity of 180 student for the B. Tech course. It also offers MTech in Microelectronics and VLSI Design since 2005 with intake capacity 18 students. The department has several well-equipped laboratories for the students as well as for researchers. It has a departmental Library, which contains text/reference books, more than 500 titles. The department of Electronics and communication stands by the vision "To produce dynamic human resources of global standards by imparting quality teaching, carrying out research and technology development in the emerging areas of Electronics & Communication Engineering".

The department also strives to produce electronics and communication engineers having strong theoretical foundation, good design experience and exposure to research and technology development in frontier areas of electronics and communication engineering. And also, to create competent professionals who can work as an individual or in a group with effective communication and leadership skills meeting the requirements of multi-cultural global environments and to help the student be a successful and responsible engineer for the betterment of mankind by inculcating social and ethical values in professional engineering program.

Presently, The Head of the Department is **Prof. (Dr.) Chanchal Kumar De** (2017-present).

Former Head of the Department(s):

1. Mr. Santi Prasad Maity (1998-2001)
2. Mr. Goutam Lohar (2001-2005)
3. Mr. Asim Kumar Jana (2005-2009)
4. Dr. Sunandan Bhunia (2009-2015)
5. Dr. Jaydeb Bhaumik (2015-2017)



Prof. (Dr.) M.N. Bandyopadhyay

Director

Haldia Institute of Technology, Haldia,
Purba Medinipur

MESSAGE FROM DIRECTOR

It is an extreme pleasure to note that Department of Electronics and Communication Engineering, Haldia Institute of Technology is going to publish the seventh edition of the techno-cultural magazine 'i-Artefacts'. I am overwhelmed to know that this magazine covers different sections including Tech Trends, Picture Perfect, Youth Central & Campus Insider with Technical as well as Non-technical Articles, Drawings and Photographs, Inspirational Stories from Alumnus, Latest Happenings in the Department and the Institute also Tech-updates.

The Society seeks a generation of young people who are not only enlightened but also trained to think innovatively. They are expected to meet tough challenges as well as create opportunities in unconventional areas in a very short span with unprecedented success. It is my firm belief that obstacles do not deter success, rather it enhances its possibilities to a great extent.

Magazines like this with vast diversification in both technical and non-technical fields gives students a better understanding in all fields. Open to observe all types of innovative ideas which are being implemented throughout the world. Students also have to understand the technical as well as the cultural activities and how these can be interrelated. This magazine hence can be one of the best mediums to have an idea about this.

So, I am providential enough to express my heartfelt contentment over the publication by 'i-Artefacts'. I take this opportunity to convey my best wishes and congratulate all the committee members for their sincere hard work and perseverance. I hope this magazine comes in as a breeze of fresh air and encourage the students to do constructive and meaningful work and takes the nation forward.



Dr. Anjan Mishra

Registrar

Haldia Institute of Technology, Haldia
Purba Medinipur

MESSAGE FROM REGISTRAR

We strived to develop our youth for the advancement of the nation during the era of rapid technical improvement and the information revolution, and we dedicated two decades to this effort. We constantly supported the pupils' development along the way with patronage, criticism, sympathy, and guidance. With these activities, Haldia Institute of Technology has evolved into a hub for purposeful education. It is an honour for me to communicate how pleased I am with the Department of Electronics and Communication Engineering's production of the techno-cultural print journal "i-Artefacts."

The entire faculty and staff at the Institute are focused on continuous improvement while keeping in mind the institute's mission statement that students are the primary drivers of technology. In addition to instruction and learning, we have a solid inheritance, This institute is emerging as a trend-setter in the heart of West Bengal, offering a good mix of academic and co-curricular activities. I urge all the stakeholders to make the most of the multiple opportunities, for self-development as well as the development of the Institute and the society as a whole. Please make the best use of all the facilities that are available. Please try to maintain a balance between academic and co-curricular activities. Enjoy yourselves by all means, but always remember the need for self-discipline, moral values and a sense of responsibility.

The mastery of mind cannot be termed complete unless the hidden potentials beyond the books are harnessed, nourished and properly shaped. The objective of all cultural events and programs at our Institute had always been focused on the same. I am sure that the initiative taken by the Department of Electronics and Communication Engineering, will definitely make our effort towards the achievement of the vision of our Institute stronger. I extend my best wishes to the faculty members and students involved of the magazine "i-Artefacts". At our Institute, the goal of all cultural events and programmes has always been the same. I have no doubt that the initiative taken by the Department of Electronics and Communication Engineering will significantly strengthen our efforts to realise our Institute's mission. To the faculty members and students working in the journal "i-Artefacts," I send my best wishes.



Prof. (Dr.) Subrata Mondal

Principal
Haldia Institute of Technology, Haldia,
Purba Medinipur

MESSAGE FROM PRINCIPAL

I'm glad to hear that in December 2022, the Department of Electronics and Communication Engineering will release the seventh issue of "i-Artefacts," its yearly journal of technology and culture.

Science and technology innovation is a deeply philosophical topic. A clogged mind is incapable of thinking clearly until it is unburdened by cultural taste. "Education is the manifestation of perfection already in man" according to Swami Vivekananda. Therefore, even if we make an attempt to provide education that keeps pace with technological innovation, it would be ineffective if it weren't complemented by something that mirrored the perspectives of our younger generation. Here, technocultural magazine can play a significant function in helping them express their ideas and perspectives in order to make it flawless.

"i-Artefacts" has numerous features that will enable numerous positive qualities not just in our younger generation but in everyone who is a part of this action. Additionally, it will work to instil confidence, ingenuity, and originality in each of them.

This magazine represents a turning point in our development because it lets our imaginations run free and gives life to our ideas and desires. It releases a wide range of creative abilities, from writing to editing to even magazine design. So getting the magazine to publish is almost like a dream.

I'd want to thank the entire "i-Artefacts" team and the authors who contributed for their efforts in turning this dream into a reality.



Prof. (Dr.) Chanchal Kumar De

Head,
Dept. of Electronics & Communication Engineering

Haldia Institute of Technology Haldia,
Purba Medinipur

MESSAGE FROM THE HEAD OF DEPARTMENT

I feel ecstatic to introduce our Department of Electronics and Communication Engineering, Haldia Institute of Technology is coming out with the seventh edition of the departmental magazine "i-Artefacts". In fact, the Glory of a department depends on the caliber and achievements of the students, teachers and staffs.

A magazine carries the contributions reflecting ethos and aspirations of each and every individual of a department. "i-Artefacts", the magazine strives for changing information into knowledge and innovative ideas, to enhancing the critical thinking to cultivate right ways that will equip all of us to stay competent in our respective fields of study and research.

Moreover, 'i-Artefacts' means something observed in a scientific investigation or experiment that is not naturally present but occurs as a result of the preparative or investigative procedure and in connection to the name of the magazine; I solemnly believe that the Electronics and Communication Engineering fraternity will certainly impart a shape to this tiny magazine to embark the meaning of the same in the days to come.

It is my pleasure to congratulate the entire team 'iArtefacts' who have made untiring efforts to make this magazine possible. I extend my warm wishes towards the success of this edition of the magazine.



Dibyendu Chowdhury

Assistant Professor (ECE)
Haldia Institute of Technology Haldia,
Purba Medinipur

EDITOR'S NOTE

We are going to publish a printed Magazine after the pandemic covid-19. I Dibyendu Chowdhury, Assistant Professor Dept. of ECE at Haldia Institute of Technology and I feel grateful to be an editor of this Magazine from faculty side since 2017. I have a challenge to give the time to publish this Magazine due to other activities of the department and institute. I along with my editorial team members have spent lot of time to make this Magazine stand out.

So here you have "iARTEFACTS", the long-awaited magazine of the ECE department for the "AN OBJECT MADE BY HUMAN HAND". This magazine gives an insight into the different hobbies of students, their creativity and activities. This magazine is a platform that exhibits the literary skills and innovative ideas of teachers and students. "iARTEFACTS" presents the hard work and dedication of students and contributions of teachers.

I would like to thank all my editorial team members for helping me to this through. I express my considerable appreciation to all the authors of the articles in this magazine. These contributions have required a generous amount of time and effort. It is this willingness to share knowledge, concerns and special insights with fellow beings that has made this magazine possible.

Thank you all!!



Abhineet Sourabh 4th year
Rohit Kumar 2nd year
Aditya Prakash 2nd year
Ankit Kumar 2nd year
B. Tech, ECE

STUDENT EDITORS NOTE

Storytelling is an art of sharing ideas that humans have mastered over the course of time, the impact it brings in the formation of culture and societies can be seen through the extraordinary narratives of great minds. It involves constant observation and lots of creativity to make the process interesting and informative at the same time. Making a subtle balance over the use of technical jargons and the ideas we attempt to share with our audience, we embark on making this magazine interactive and easy to comprehend. In this digital version we have put dynamic content to provide the best reading experience. Believing in the best and maintaining the highest standards is what has been our legacy. We have given our best to uphold this. As a reader you will feel a dopamine rush while going through the recent advances in communications, electronics, automation, robotics and future end technologies. And while diving into the literature section you will embrace the remarkable efforts of our peers at HIT expressing their heart through beautiful words and pictures. We have thoroughly put visual illustrations and the emotions we share with our readers. And this endeavor would not have been complete without a rewind through the achievements of ECE department and the glimpses of some memorable moments we have lived together.

The entire process of publication has been a great learning experience for us. Building from scratch gave us the flexibility to work and improve our content at each step and share ideas throughout. This bottom-up approach of ours to complete this project made us deliver every bit of this magazine as original ideas of our team members. Our strength lies in the size of our team contributing with a common goal to build something great, whose efforts have made this journey an easy ride. We invite our readers to share their views and remarks on our social media instances and make this endeavor an ongoing journey until we are back again with another version of your favourite "i-Artefact".

TECH TRENDS 2022





HOW AN ATOM WORKS ?

-Asst. Prof. Dibyendu Chowdhury

“Hello I am Bob the train, do you go on a space venture” with this song kids start to know about the planets of our solar system. Kids in this time visualized some sphere with different colors and sizes moving around the unique sphere.

They also enjoyed the planet's characteristic animation. Childhood passes away with some cartoons and a lot of love from the parents after that they feel weight at the back for the books. In secondary school they will teach about the solar system in science class. During this period they know how the solar system works, characteristics of the planets, structures of the planets and the location of the sun in the galaxy.

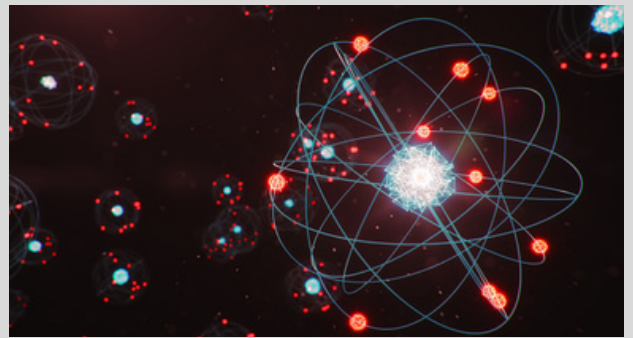
“The Solar System moves through the galaxy with about a 60° angle between the galactic plane and the planetary orbital plane.”

In upper class in secondary school they also learn about the Atom in science class. They know how the Atom works and also know the structure!!

“All atoms can move from one point in space to another, and this kind of motion is known as translational motion.”

You can better understand how an atom works, just imagine our solar system. Planets orbit Sun without any external energy. They have been in the movement since the formation of the solar system, and there is no force that could stop them.

Planets are kept stable in their orbits due to Solar gravitational force. Similarly, electrical



attraction to the nucleus keeps it in orbit. It moves around the nucleus without any additional energy. Energy would be necessary only to change the orbit or pull it away from the atom.

However, things are more difficult than in this planetary analogy. An orbiting electron ought to radiate energy as electromagnetic waves. Hence, it would lose energy and crash quickly into the nucleus.

Though an atom is very small, it is made up of mostly empty space. Just like the planets in the solar system, the electrons in an atom orbit at great distance, relative to their size, from the atom's nucleus.



Earthquakes and Possible Prediction Techniques: An Overview

-Tilak Mukherjee and Kushal Roy
Assistant Professor, Dept. of ECE, HIT

Earthquakes (or EQ) are considered to be one of the worst natural hazards leading to massive irreparable loss to life and property of an individual and also to the society as a whole. It is a seismic activity where sudden energy is released within the earth's crust in the form of specific seismic waves. These waves may travel through the interior of the earth leaving the focus like body waves or may spread from the epicenter region commonly termed as surface waves. Abrupt tectonic shifts in the lithosphere, faults in the earth's crust, other volcanic and surface effects that give rise to anomalies in the atmosphere in terms of water vapour content, temperature rise, infrared (IR) emission and changes in radio refractive index parameter are some of the prominent factors behind such an inevitable calamity. Any EQ impact is properly assessed according to the frequency, nature and intensity of the seismic event. In the past years, several techniques have been employed to specify the time, location, magnitude and categorization of the EQ within stated limits. Some commonly used earthquake prediction techniques are:-

- i) Prior sensing of tectonic plate movement and foreshocks.
- ii) Use of Electro-sensitivity techniques and extraction of the seismic signal.
- iii) Reverse tracing of precursor methodology and expert study of animal behavioural attributes.
- iv) Radio wave techniques using atmospheric studies with the use of satellite data and further analysis of the recorded data.

The prediction of such catastrophe especially in the faulty zones is of prime importance in the area of predictive learning analytics. Despite the fact that being well equipped with high resolution type data, images and sophisticated modern state of the art technology the proper prediction for such EQ events with greater

reliability and accuracy still remains a serious challenge for all of us. Prior identification of the anomalies with a multidisciplinary approach needs to be investigated so as to predict the problem of hazardous occurrence. The associated parameters in the context of EQ seismic activity are to be analyzed and explored with more degree of precision so that the risk of vulnerability can be minimized to an appreciable extent.

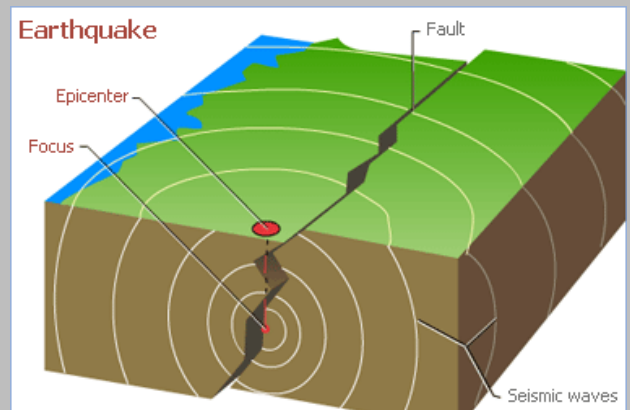
In our present brief article, focus is more on lower atmospheric i.e troposphere changes before and after the EQ. Normally, the troposphere has a lapse rate of 6.50 C /km and the air pressure and air density decreases with altitude. EQ events are accompanied by strong gravity waves which interfere strongly with the normal temperature profile of the troposphere region. Few days before the occurrence of any seismic activity in a particular zone, the tropopause level temperature rises. Relevant planetary data using radiosonde or recorded remote sensing data over a certain time span before the occurrence of EQ such rise in temperature can be observed. Apart from this, the gravity waves have the tendency to move upwards in the lower atmospheric region thereby causing lower tropospheric temperature profile to deviate quite unexpectedly. This variation in temperature could possibly indicate about the impending seismic event. The possible earthquake zone releases huge amounts of radon causing sharp increase in the ionization intensity of the lower atmosphere levels. The water vapour molecules adhering to these ions eventually lead to the formation of ions or aerosols. Water vapour attachment to these ions decreases the free water vapour content in the air, and therefore relative humidity profile decreases accordingly. It is noteworthy that in this entire process, substantial amount of latent heat is discharged

causing thermal anomalies in the lower atmosphere. Consequently, the atmospheric refractivity modifies and thereby decreases the gradient of radio refractive index parameter (dN/dh) few days prior to the EQ event. The rapid decrease of dN/dh parameter is mainly accountable for atmospheric duct formation, allowing the wave to reach beyond the line of sight (LOS) limit. Modification in atmospheric refractive index followed by drop in relative humidity levels above the epicenter region few days prior to the earthquake could possibly be another warning hint of the alarming seismic event.

Besides, increased ionization intensity of the lower atmosphere generates large number of aerosols which are both positively and negatively charged. The electric field that is created by charge separation in the atmosphere further tends to accelerate the charged particles. This electron energy is sufficient to cause excitation and further emission of quanta of energy in the infrared (IR) region, which particularly is due to the excitation of various gaseous molecules like CH_4 , CO , CO_2 , N_2O , O_3 etc. This happens generally at altitude range of 15km to 20 km. in the atmosphere region during EQ preparation times. Therefore, considerable variations are observed in the temperature profile, humidity content and radio refractive index parameter along with IR radiation prior to the seismic activity as possible warning kind of precursory signals.

Prediction of EQ seismic activity has catapulted the interests of researchers and data scientists from various allied domains. Reasonable identification of anomalies should be

performed based on long term regional analysis for enhanced accuracy since EQ fault is complex in its inherent nature. Statistical evidence for a justified correlation is lacking and pattern of such crucial precursors may vary accordingly from one EQ to another. The probability of occurrence has to be estimated dealing with parameters having sufficient precision to minimize the repercussions of such havoc. Other factors that may result in such similar anomalies should also be studied so as to predict the



hazardous activity before its occurrence addressing both reliability and accuracy issues. Local seasonal changes of temporary nature, instrumentation errors or spurious background noise often need to be filtered out prior to the identification of anomalies using. A viable statistical probability model incorporating suitable machine learning prediction algorithms will certainly pave the way for future work in the vast field of data science applications coupled with remote sensing.



6G *Communication*

-Osik das
19/ECE/89

In telecommunications, 6G is the-

sixth-generation mobile system standard currently being developed for wireless communication technology that supports cellular data networks. This is planned as his 5G successor and should be significantly faster.

Like its predecessor, the 6G network could become a broadband cellular network with coverage divided into smaller geographical areas called cells.

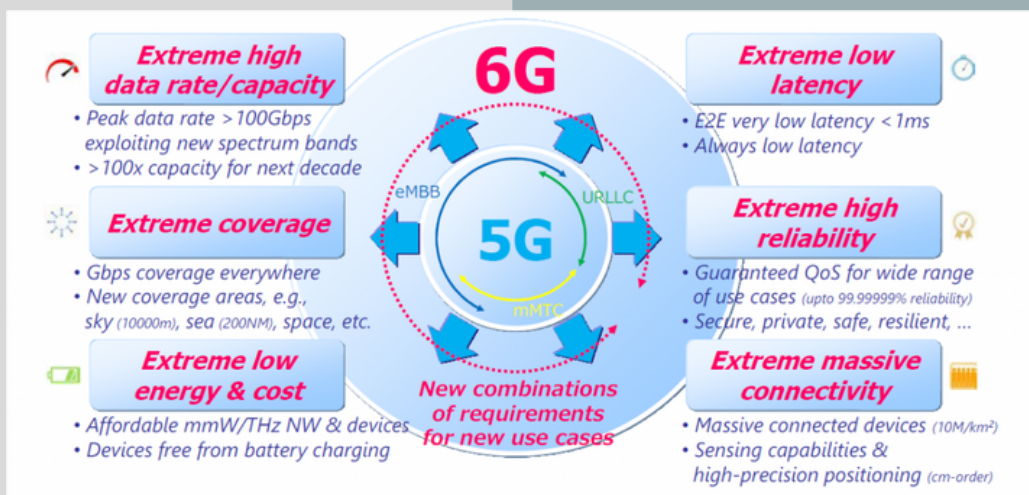


Multiple companies (Airtel, Anritsu,

Apple, Ericsson, Fly, Huawei, Jio, Keysight, LG, Nokia, NTT Docomo, Samsung, Vi, Xiaomi), research institutes (Technology Innovation Institute) and countries (USA, European Union, China), India, Japan, South Korea,

Singapore, and the United Arab Emirates) have shown interest in 6G networks. 6G networks are expected to be even more diverse

than their predecessors and likely to support applications beyond current mobile usage scenarios such as B.

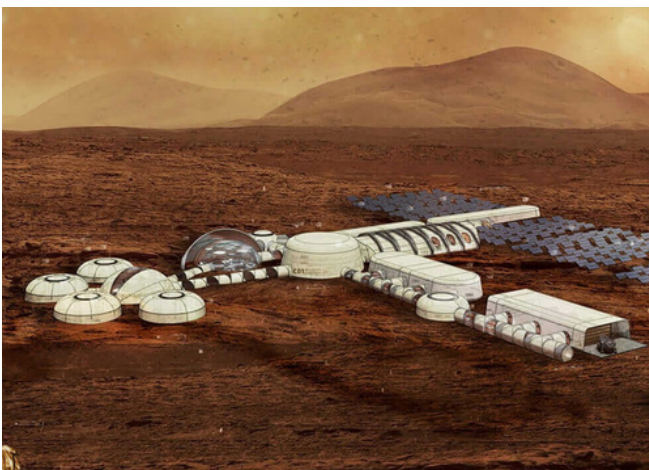


Mars being a fourth planet from a sun in solar system and nearest planet from earth a dusty, cold, a desert world with a very thin atmosphere.

Mars is also a dynamic planet with seasons, polar ice caps, canyons, extinct volcanoes, and evidence that it was even more active in the past. That means it has life supporting facilities.

Mars would be the easiest planet to live on. Mars has liquid water, a habitable temperature, and a bit of an atmosphere that can help protect humans from cosmic and solar radiation. The gravity of Mars is **38%** of that of the Earth.

Living on mars sounds like frictions now days but it will reality in few years. **Elon Musk** a billionaire and founder of SpaceX has a vision to send human on mars and colonized it. You are surprised to know that the most awaited aerospace announcement of the year Elon Musk has revealed his grand plan for establishing a human settlement on Mars.



What is SpaceX?

SpaceX was formed by entrepreneur Elon Musk in the hopes of revolutionizing the aerospace industry and making affordable spaceflight. SpaceX designs manufactures and launch advanced rockets and spacecraft. The company was founded in 2002 to revolutionize space technology, with the ultimate goal of enabling people to live on other planets.

"You want to wake up in the morning and think the future is going to be great - and that's what being a spacefaring civilization is all about. It's about believing in the future and thinking that the future will be better than the past. And I can't think of anything more exciting than going out there and being among the stars."

-Elon Musk

What is SpaceX's Mars program?

The SpaceX Mars Program relies mainly on the Starship. It is a massive reusable spacecraft. It can launch, land, refuel and launch again, making it the holy grail of rocketry. The Starship is designed to reach Mars and can take 150 tons of payload or over 100 people in just one flight.



-Bhashkar kumar 21/ECE/040

Metaverse:

the challenge The user's own digital identity being represented as an avatar should become something universal and exploitable in various Metaverse spaces.



This is a big challenge with current initiatives, which are mainly centered around proprietary, locked-in Metaverse solutions. Building a system to connect these worlds, with interoperable assets and avatars, is a key step in enabling a shared Metaverse.

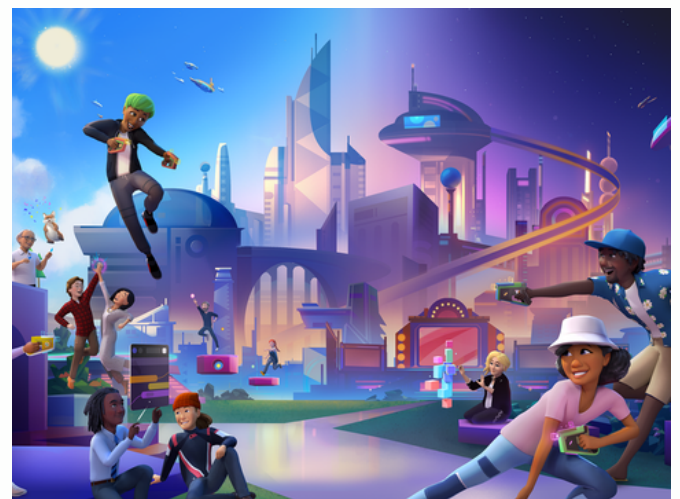
This will lead to the creation of a new level of reality which will be fully digital, with its own values and economy, and including an expression of ourselves, as in the real world. Many sub-challenges come with this mission: privacy, identity theft and security concerns which should not be dismissed.

Web3 and decentralized technologies like blockchain could represent a solution: NFTs, for instance, could help locate practical applications in the Metaverse not only for guaranteeing the ownership of a digital identity, but also for securing transactions of virtual objects and ensuring interoperability between Metaverse platforms.

In the near future, we will have a digital layer of our everyday life:

A virtual presence of ourselves will perform all the activities we typically do, within a RealWorld Metaverse fueled by real-time data.

We will live a whole existence in virtual environments, where we will be represented by our Human Digital Twins.



--Metaverse playing important role in our daily life.

NON - TECH TRENDS





- Prof. Kisalaya Chakrabarti

The Great Adi Shankaracharya

(8th–9th-century) was an ardent follower of the mantra ***Tat Tvam Asi***.

Although, it has come into existence in the sixth chapter of the ***Chandogya Upanishad*** when ***Uddalaka Aruni*** educates his son ***Svetaketu***, about the nature of “***Paramatman***” or “***Brahman***”, the absolute being. Conventionally, the meaning of the hymn is “***That Thou Art***” which depicts as “***that you are***”.

The pluralistic meaning has been described by many great ancient to modern philosophers like ***Madalasa of Markandeya Purana***, ***Yajnavalkya*** and ***Maitreyi of Brihadaranyaka Upanishad***, ***Aitareya Mahidasa of Rig Veda***, ***Gaudapādācārya of Mandukya Upanishad*** and by ***Swami Vivekananda*** in the contemporary period which is rooted on the eternal ideology of self realization that “***I am Divine***”.

It is underlying on the concept that the

Individual being depicted as “***Self***” which come into the existence as a disconnected entity from the manifestation of the “***Complete***” or “***Brahman***” are basically the same. In *Advaita philosophy*, founded by ***Adi Shankaracharya***, the same transcendental hymn is illustrated as “***Aham Brahmasmi***” which relates the universal consciousness of Brahman with the entity of the “***Self***” also called “***Atman***”. ***Jnana yoga*** emphasizes on the deliberation of this eternal (Sanatan) philosophy, which ***Swami Vivekananda*** has preached particularly to the West and according to him this philosophy has the capacity to nullify all religious bigotries and sectarianism.

Vinyl Phonograph Record- A Legend of Lost Era

-Dr. Avisankar Roy



From 1932 until the early 1990s, the vinyl gramophone record was the single most popular medium for the reproduction of recorded music. Like many significant inventions, the line of evolution began with Thomas Alva Edison, who developed the cylinder recording system. It was Emile Berliner—already known as the man who invented the microphone used in the mouthpiece of Alexander Graham Bell's first commercial telephones—who, in 1887, developed the idea of using discs with a lateral groove cut in spiral.

The first discs were manufactured from rubber, but shellac was introduced in 1896, and the 10 inch 78 rpm “single” became the norm. This system however had three notable problems; shellac was extremely brittle and record broke easily; it generate high level of background noise, and it was simply not possible to get much music on a record – around four minutes in each side. Large scale classical compositions had to be chopped up into movements and sold as a collection of disc bound in cardboard albums indeed, this is where the term “Album” originated.

In 1932, RCA Victor launched the first commercially available long-playing (LP) records using a new material—vinyl. These featured a low surface noise, were 12 inches in diameter, and played back at 33 rpm, and so could contain more music. That this new system failed to take off at first was a matter of timing: As the Great Depression kicked in, consumer confidence was unsurprisingly low. Nevertheless, Victor continued to back what was clearly a superior approach, and gradually, during the 1950s, the 12-inch LP and 7-inch single took over.

Autobiography of Semester Question Paper

-Asst. Prof . Pallavi Pahari

I am proud to present myself as an Engineering Physics question paper and I am thrilled to tell about my life story. I was born in a computer screen by a highly intelligent being commonly referred to as “teacher”. For me he is like a father figure who infused into me great values which the students denote as “marks”. My father helped me grow from page to page and made me tough. Literally! A while later I was sent to serve my purpose, i.e., of becoming a semester question paper. Basically I was cloned in a laboratory several times



using a weird looking machine with lights coming out from all of its sides. I don't actually know what the humans call it these days! Ah yes, its called photocopying...so I was photocopied for about 1000 times as if I was about to become a man and serve my duty to the education system. I was ceremoniously placed on a stack of other question

papers and was introduced to my colleagues Industrial Stoichiometry and Fluid Mechanics, my two brothers. The elder one was Fluid Mechanics who was a tough guy, very hard to beat and he always got my back. However, Industrial Stoichiometry was kind of a hopeless romantic who always fell for his crush Basic Electrical Engineering in spite of getting “short circuit” numerous times. There was a rumour going on that initially he was head over heels over Computer Applications for such a long time that he developed a “bug” which is still living and growing inside his head. Anyway, my sister Heat Transfer was very supportive of me and used to tell me that one day I am going to be famous just like a movie star and all the students would be on their hands and feet just to have a glimpse of me. Ohh Man!! I started imagining what a life I was about to have full of stardom and fame just like the paper on Theory of Relativity which was one of the Gods that we worshiped. Just as I was about to finish my dream, I was grabbed and snatched like a very ordinary paper and within a moment put inside an envelope

and sealed with my clones. There, I was kept overnight and almost died due to claustrophobia. Next morning, I woke up and was placed on the hands of beautiful girl with apple red cheeks who looked very very nervous and received me with trembling hands. She looked at me for some time and slowly started smiling and writing furiously. There was a tinge of cuteness and virtuousness in her eyes which made me glad. Although I was tough, she solved all my difficulties and questions perfectly just as I wanted. While I was admiring her red cheeks I almost fell in love with her innocence. But wait!! She wasn't as



innocent as she looked. Suddenly I felt a sharp tug in my ear and I found myself furiously and hastily handed over to a guy sitting behind her. I swear to almighty Einstein (Our version of God), that the guy did not have apple red cheeks or beautiful eyes. In fact just the opposite...His eyes were bloodshot and his cheeks looked like a road which recently had a car accident! He wrote a lot of differential equations and some weird looking symbols on me which made me really really upset! Then all of a sudden, I was once again returned to the girl in front of him in the same hasty manner. This time the girl had a long bright smile. The highlight of my life came when she kissed me after the completion of the exam. I still remember

those beautiful lips!!! After this whole examination fiasco, I remembered what my sister Heat Transfer told me about fame and I felt satisfied and content. I have served my purpose and I got a kiss for free!! After the exam, just as I was reminiscing that kiss, I was grabbed in a very dishonourable manner and made into an aeroplane. I flew and flew and finally landed in the dustbin. What a fate!! How the tables turned!! I remained there for few days and then was taken to a recycling machine and was about to be brainwashed so that new things can be written on me. Later on I learned that I was to be recycled into a post card...so life wasn't that bad as I was once again ready to meet a bevy of beautiful girls who would write their feelings of love and passion over me!

That's how life is. We grow, we face many problems which we never knew existed. We will have many ups and downs in life, but patience, love and faith were my three pillars by which made me a decent "paper being". When I felt content and happy with my life, life threw me new opportunities. May Lord Einstein be with all our brothers and sisters and maybe one day the humans can crack the code convincingly about how the universe was formed. I know the majority of people say that it was formed by the big bang but I still believe what my grandfather Douglas Adams told me that it was sneezed out from one of the noses of Great Green Arkleseizure.

How Social Media is causing a self-degradation among youth:

Social media is often lauded as a positive force in the world, providing a way for people to connect with others and share information.

However, there is a downside to social media that is causing self-degradation among youth.

When young people use social media, they are constantly exposed to images and messages that can be damaging to their self-esteem.



Every time they see a "perfect" person with a large number of followers, they compare themselves and feel inadequate. This can lead to a spiral of negative thoughts and behaviours, such as engaging in self-harm or developing an eating disorder. In addition, social media can be addictive, leading people to spend hours scrolling through their feeds instead of engaging in more productive activities. This can lead to a feeling of restlessness and boredom, which can further damage self-esteem.

It's important to remember that social media is not reality. The people we see online are often presenting a carefully curated version of themselves, and it's important not to compare our own lives to these unrealistic standards.

-Shanu Kumar
21/ECE/148

Ragging: A chance to harass or a scope to bonding

Ragging has been a longtime so called ritual practiced generally by the seniors on their juniors.

It involves abuse, humiliation, or harassment which is most of the times taken in a wrong way. Of course there are harass methods of ragging involved in colleges which leads to serious damage on mental health of students.

Though very mild ragging that is actually practiced in most colleges



liked introduction asked by the seniors or maybe asking to wear the correct uniform isn't wrong or bad as well. It becomes a method of communication also between the juniors and the seniors, and helps forming and upbringing better relationship among them. This grooming also helps the junior students to handle pressure and become comfortable to future audience addresses and help them develop a good personality. Therefore this long practiced initial ritual if looked through in a correct and mild way lets juniors in upbringing confidence and awareness of their own strength.

-Sampriti Dhal
21/ECE/137

YOUTH CENTRAL

"Youth is hope for every nation."



A COMMON DILEMMA

-Kankan Paria

21/ECE/064

A

s I trot along a remote path
Far from this society which matures in wrath,
In this place I give a think
My thoughts enter into an unforgiving labyrinth.

At some days the world displays it as a dream
Moving across fine plains as water
Soars down from heaven's mountains,
Drawing air with tranquilized harmony
And warming oneself with a tender flame,
Nature seemed to have breathed life in all leaving none.



At some days the world feels like hell,
A vicious smell of blood fills the air
As one walks over corpses of fallen heroes,

Compassion and righteousness subsided to cruel society's
will, As morality gets reduced to a mere figurehead.
Leading men of our era to whom every soul idolizes,
Replace justice and noble thoughts
With deceit and devouring madness
And everyone loathes for more personal gain
Which even makes the seven sins punitive.

This writer does ask to all pious and conscious few
Those who still endure and cling to ideals;
Are conflicts the only nemesis that awaits us?



MEMORY



O calm memory , O sweet memory
Come again , once again
In the squeaky bench
And in the horizon of perpetual.

The humbug age is licking my arse
With his oddity and his peppery.
The golden days are sleeping down
From my perforated barren mind.
I swear, I'll pray from a half-lighten
classroom.

Instead of having a fine arboury.
Where will I meet with my sapful impulse
And the quaintness of my friends.
In the end of this holocaust episode
When the nymph will subdue all disaster
We will gather again in a smokey alley
And beside the bank of the Tigris.

-Arpan Ghosh
122/ECE/209

Introvert Me & my inner monologue

'O'nline YES but also on the spot
'F'ails to express myself in front of everyone
'F'AMILY is how I see us all.
'C'an chat for hours but
dare not to pick up the calls.

'O'UT of battery, lemme recharge my
social energy
'M' not so good with words
'M'aybe that's why my friend circle is
small in this world
'U' might think I'm hard to approach.

'N'o, don't worry, that's not your fault.
'I' and myself with this inner time.
'C' an work together, create some space.
'A' chat group, that's our meeting place:

'T'hen, are you in? Let's make noises
'I' myself and my all inner voices
'O'veright we'll stay and type a lot.
'N'ow let's go back on the top.

-Kumari Sanjana
21/ECE/073



अजेय ताप

करते है यूँ कर बान्ध बोध हम,
अद्वैत शील को जो मान शोध तम ।
खड़ व खाद से तब खेले थे वो,
जान हथेली में ले के थे वो।
भूमि के भंग भाम्प गयो थे,
जैवन्ता के वो लाल भयो थे ।
उर्मिल सा वो ताप देख के,
थे आगे व सन्ताप देख के,
तो मन विचलित न भयो डगर से,
जैसे कौन्धी वज्र अम्बर से ।
हल्दीघाटी रक्त घोंट रही थी,
सिसक-सिसक के वो बोल रही थी,
बड़े दिनों के बाद ऐसा समर देखा है,
काल ने तो प्रचण्ड महाकाल देखा है।

Ujjwal Raj anand
19/ECE/179



क्या है पृथ्वी ?

अमाज़ॉन की जंगल की आग है पृथ्वी,
शेहरो की दूषित हवा है पृथ्वी,
कसानो की सूखी खेत है पृथ्वी,
अफ्रीका की झूलज्ती गर्मी है पृथ्वी,
खदानो मे मशीनों की आवाज़ है पृथ्वी,
ओज़ोन की जाती परत है पृथ्वी ,
बदलती मौसम का आतंक है पृथ्वी,
इंसानो की लालच का ज़रिया है पृथ्वी।



क्या यह है हमारी पृथ्वी?
नहीं ।

उगते सूरज का राज़ है पृथ्वी
शाम की हवा का सुकून है पृथ्वी
रात के तारो का सपना है पृथ्वी
मुशफ़िरो क उमीद का करण है पृथ्वी
फूलो की सुगंध है पृथ्वी
जानवरो की खोफ़ का नाम है पृथ्वी
जीवन की खोज का कारण है पृथ्वी
आने वाले पीढ़ी का सच है पृथ्वी।

-Pratyush Das
21/ECE/097

माँ के नाम

बचपन से बहुत परेशान किया हूँ न माँ,
हमेशा अपने काम को ज्यादा महत्व दिया हूँ न माँ,
गर्मी में चूल्हे के सामने काम करना हो,
या सरद में ठंडे पानी में बर्तन धोना,
कभी भी तुम्हे थकते नहीं देखा माँ ।
डर लगने पर तुम्हारी आंचल में छिप जाता,
परेशान होने पर तुम्हरी गोद में माथा टिकाता,
एकलौती तुम ही तो हो जिनसे मैं छिप कर भी नहीं
छिप सकता ।

तुमपे बहुत चिल्लाया,
छोटी छोटी बातों पर नाराज़ हुआ,
आज यह सब सोच कर खूद को कोसता हूँ माँ,
कितना ही नादान था न मैं माँ,
आज तुमसे दूर रहता हूँ माँ
अकेले में तुमको ही याद करता हूँ माँ,
आज भी डरता हूँ माँ,
बस तुम्हे बताता नहीं हूँ माँ ।
मेरे सारे परिश्रम का अंश हो माँ,
मेरे सारे खुशीयों का पहला हकदार हो माँ,
बस थोरा वक़्त दे माँ,
तेरी आँशु की एक एक बूंद का हिसाब ला रहा हूँ माँ ।

-Pratyush Das
21/ECE/097



प्रकृति का जवाब

सुना था प्रकृति, अपना संतुलन
खुद बना लेती है, अपने गीत
अपने ही ताल, लय में गा लेती है ।



उसे पसंद नहीं आता किसी तरह का व्यवधान
इंसान खुद को ईश्वर माने और करे अभिमान
इसलिए वायु, धुएँ, प्रदूषणों से घबरा गई धरती
वाहनों की कनकोड़ आवाजों से थर्रा गई धरती ।



नदी, झरने सागर सारें आकाश, चाँद, सूरज,
तारें अपनी जगमगाहट खोने लगे,
जलचर थलचर मानव की क्रूरता पर रोने लगे ।
सबकी बैचेनी का जब कोई हल ना निकला
तब सृष्टि ने मानव की दानवता को ऐसा निगला
कि अब सब खामोश घरों में दुबके बैठे है ।



अपनी चंद सांसो को हाडमांस के पिंजरे मे
भय से समेटे है, चहुँ और शांति सन्नाटा है
प्रकृति का मानव के लिए करारा चाटा है।

-Deepak Kumar Pandey
21/ECE/048

कोरोना कि मार

हंगी खुशी के मंच पर
हुआ रंग में भंग,
मगर हौंसले कह रहे,
हम जीतेंगे जंग।
बाल-वृद्ध, नर नारी क्या,
पशु-पक्षी बैचें,
अपने ही संसार में,
व्याकुल सब दिन- रैने।
तालाबंदी क्या हुई।
आंगन साधे मौन।
कोरोना-सी व्याधि की,
औषध खोजे कौन।
दर-दर है खामोश अब,
खुद पर कसता तंज।
कब तक खेले लाडले,
दादी स्वंग शतरंज।



जो न हो पाया कभी,
मेले, ठेले, हाट
उसकी किस्मत मे कहां,
कोरोना की काट।
लो, मानव को मिल गया,
कैसा अद्भुत टास्क।
घर-बाहर बरबस चढ़े,
मुख-मंडल पर मास्क।
हर पल, हर दिन जो रहा,
भरी भीड़ से दूर।
उसे सहज ही मिल गया,
सेहत सुख भरपूर।
नगर-डगर सब हो सजग,
रहे स्वच्छ परिवेश,
आएं लाख चुनौतियां,
नही हारेगा देश।

-Deepak Kumar Pandey
21/ECE/048

कॉलेज का पहला साल

देखते देखते न जाने कैसे, ये वक्त गुजर गया,
पता ही न चला।

अभी तो जैसे कल पहला ही दिन था,
आज न जाने कैसे पुरा साल निकल गया,
पता ही न चला।

अभी तो खाइ थी वो पहले साल कि होस्टल की रोटी,
कब उस रोटी का स्वाद बदल गया,
पता ही न चला।

अभी तो चल रहे थे थोड़े सहम के सिनियर से,
कब खुद ही सिनियर बन गए,
पता ही न चला।



अभी तो चाय की चुस्की ले रहे थे 10
दोस्त बैठ के कॉलेज के सामने,
कब उनमें से बस 2-4 रह गए,
पता ही न चला।

मैंने तो बस्ते में लेकर आए थे 4 साल,
कब उनमें से बस 3 रह गए,
पता ही न चला।

हाथों के दस्ताने से कब ये वक्त फिसल गया
पता ही न चला,
देखते देखते कैसे ये वक्त गुजर गया,
पता ही न चला,
पता ही न चला।।

-Raj Deepak
21/ECE/111



वह पहली किरण

सूरज के उगने पर ही
क्यूं खिलता है कमल ?
छट जाता है अंधेरा
लगता है सब कुछ क्यूं नवल?
पेड़ों पर जंगलों में
चहचहाते खग,
गावों में , शहरों में ,
नदियों में, तालाबों में
दिखती है क्यूं
जीवन की ताजगी नई नई ?
आसमान की सिंदूरी लालिमा
क्यूं भर देती है
तन मन में खुशी ?
शीतल बहता मंद मंद पवन
जीवन के आलस को
करता क्यूं खतम ?
नदी की मनोरम छटा ,
हरे भरे पेड़ और पौधे ,
धरती की हरियाली
क्यूं मोहता है मन ?
ऊर्जा संचार हो जाती है
तन मन और मस्तिष्क में,



मन क्यों कहने लगता है,
कुछ कर ,कुछ नया कर ?
जीवन तो सिर्फ
एक दिन की पहेली है,
उसे व्यर्थ न जाने देना ,
कुछ नए कुछ पुराने
कामों को करते ही जाना।
आनेवाला कल अनिश्चित,
वह आएगा,ऐसा सोच कर
बैठ मत जाना,
सब कुछ करते रहना
मंजिलों को हासिल करना।

-Durgesh kumar Roy
20/ECE/061

বিধির বিধান

মা-বাবার স্নেহে গড়া ছিল একটি ছেলে
জীবনটা তার সুখে-দুঃখে কেটেছে হেসে খেলে
ছোট্ট শিশু ছিল যখন কাঁদতো শুয়ে শুয়ে
রাত জেগে মা খওয়াতো তাকে কোলে করে নিয়ে,
জেঠু জঠিমা আদর করতো কোলে পিঠে রেখে
প্রতিবেশীরা ভালোবাসতো হাসি মুখটি দেখে,
দাদু দিদা মামা-মামী, মাসি-পিসিরা জানে
শুভ ছেলেটা সবার প্রিয় শ্রদ্ধা-ভক্তি জানে
ভালোমন্দ খাবারেতে মা ছিল চোখের মনি
ভাইয়ের সঙ্গে দুষ্টুমিতে বাবার কাছে বকুনি
বড় হয়ে স্কুলে যেত সহপাঠীদের সাথে
বাবার কাছে বায়না ধরতো সাইকেল কিনে দিতে।
পড়াশুনায় ভালো ছিল সব বন্ধুরা জানে
মাধ্যমিকে লেটার পেয়ে স্কলারশিপ সম্মানে
এগারো ক্লাসে পড়তো যখন বিজ্ঞান বিভাগ নিয়ে
সিলেবাসটা একটু কঠিন, পড়তোনা মন দিয়ে
ক্রিকেট ছিল খুবই নেশা খেলতো যখন-তখন
টি.ভি.- তে যখন খেলা হতো বই পড়তোনা তখন,
মা বকতো বাবা বকতো শুনতনা সে কথা
পরীক্ষার ফল হলো যখন পেল মনে ব্যথা,
সেদিন ছিল- ১৫ই বৈশাখ, বুধবার দুপুর-বেলা
তার সুন্দর-সবুজ প্রানে নেমে এলো নিয়তির খেলা,
এক অদৃশ্য শক্তির ঘাতে অকালে নিভে গেল তার
প্রান
কাতরস্বরে মা-বাবার জিজ্ঞাসা- এই কী বিধির
বিধান?

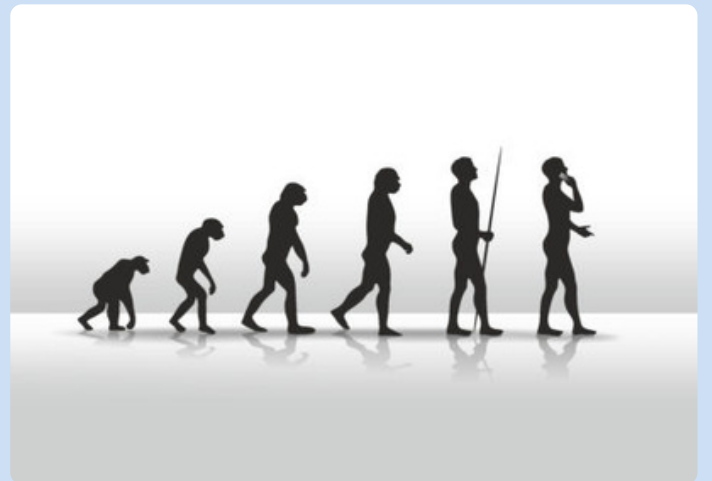


সুধাংশু মাইতি
ECE, HIT হলদিয়া

সমাজ বিকাশের ধারা

ইতিহাসে জেনেছি মোরা সমাজ বিকাশের ধারা
আদিম সমাজ আধুনিক হয়েছে জ্ঞান বিজ্ঞানের দ্বারা
মানুষ যখন বাস করতো বনে জঙ্গলে গুহায়

হিংস-পশুর আক্রমণে ছিলনা কেউ সহায়
প্রকৃতির সঙ্গে লড়াই করে বেঁচে থাকতো তার
খাদ্যের টানে জঙ্গল গিয়ে অনেক জীবন হারা,
কাঁচা মাংস খেয়ে তারা করেছে জীবন ধারণ
স্বাধীনভাবে ঘুরে বেড়াতো কেউ করতোনা বারন
আগুন জ্বালাতে শিখলো যখন পাথরে পাথরে ঘষে
কাঁচা-মাংস পুড়িয়ে খেত আরাম করে বসে
গুহাবাসী হলো যখন গোষ্ঠি হতে শিখল
গোষ্ঠিবাসীর দায়িত্ব নিতে নেতা তৈরী করল
দলবদ্ধে থেকে তারা ভাবলো বসে বসে
সাথে-মিলে চাষ করতে হবে গুহার আশে-পাশে
চাষ-আবাদ শিখল যখন আপন বুদ্ধি-বলে
খাদ্য যোগাড় করতে তারা গেলনা আর জঙ্গলে
অনেক কিছু শিখলো মানুষ যন্ত্র আবিষ্কার করে
আধুনিক সমাজে পৌছলো তারা অনেক সংগ্রাম
করে।
এই ভাবে মানুষ এগিয়ে যাবে অনন্তকাল ধরে।



সুধাংশু মাইতি
ECE, HIT হলদিয়া

মৃন্ময়ী

Riddhi Chatterjee

(20/ECE/125)

সময়টা ডিসেম্বর মাসের মাঝামাঝি, কৃষ্ণনগরের প্রত্যন্ত গ্রাম কুমোরখালির বাতাসে সাজ সাজ রব। আসন্ন সরস্বতী পূজা উপলক্ষে প্রস্তুতি তুঙ্গে, ব্যতিক্রম নন রবীন কুমোরও, জন্মসূত্রে পাওয়া পদবী দাস হলেও বংশ পরম্পরায় পাওয়া পেশার জের ধরেই সে রবীন কুমোর। প্রত্যেক বছরের ন্যায় এ বছরেও অনেক প্রতিমার বায়নাই পেয়েছে এ তল্লাটের অন্যতম শ্রেষ্ঠ মৃৎশিল্পী। মধ্যাহ্ন ভোজনের পর শীতের মিঠেকড়া রোদ্দুর গায়ে মেখে তারই প্রস্তুতি নিচ্ছে সে, পাশে বসেই বাবার কাজ মনোযোগ দিয়ে অবলোকন করছে সোড়শী মৃন্ময়ী। মূলত মাটির জাদুকর হওয়ার সুবাদে একমাত্র কন্যার নাম রাখেন মৃন্ময়ী। বাল্যকাল থেকেই বাবার কাজকর্মে প্রবল আগ্রহ মৃন্ময়ীর, তাইতো পড়ার ফাঁকে মায়ের বকুনি অগ্রহ করে বাবার কাজ দেখতে থাকে সে।

'ও মিনু মা আর কতক্ষণ এইখানে বসে থাকবি মা ঘরে আয় মায় বকবে তো', কাজ করতে করতে বলেন রবীন কুমোর। এই মেয়েকে নিয়ে তার অনেক আশা পড়ালেখার পাশাপাশি তার আদরের দুলালী মৃৎশিল্পে ও দক্ষ হয়ে উঠবে এই আশাই প্রতিনিয়ত বুকে লালন করেন তিনি। ধ্যান ভাঙে মেয়ের সপ্রতিভ উত্তরে 'তুমি অতো ভেবোনি গো বাবা, মাকে বলে এয়েছি আমি, কিছুটা হবেনি, তুমি নিশ্চিত্তে কাজ করো দেহিনি'। মেয়ের কথায় আলতো হাসলেন রবীন, পরক্ষণেই শূধোলেন - 'তা হ্যাঁ রে মা, তুই এই সব কাজ দেখে কিএত মজা পাস বলতো?' ভাগর ভাগর চোখে বাবার মুখপানে চেয়ে থাকে মিনু। এই প্রশ্নের উত্তর যে তার নিজেরই অজানা, সে জানে না কেন তার ভালোলাগে শুধু এটুকুই বোঝে যে এই মাটির মূর্তিগুলো ও একেকটা কাহিনী বহন করে। মেয়ের মৌনতা দেখে হাসেন রবীন কুমোর, তার মেয়েটি যে নিজেও এই পেশার দিকে আকৃষ্ট হচ্ছে তা বুঝতে বিলম্ব হয় না তার।



কাটতে থাকে দিন, মাত্র এক সপ্তাহ বাকি সরস্বতী পূজার, এর মাঝেই ছন্দপতন। আচমকা গুরুতর অসুস্থ হয়ে পড়েন রবীন কুমোর, এ অবস্থায় কোনোমতেই তার পক্ষে প্রতিমা গড়া সম্ভবপর নয়, কিন্তু তা কী করে হয়! বাকি প্রতিমা গড়ার কাজ সম্পন্ন হলেও কলকাতার স্বনামধন্য একটি ক্লাব থেকে বায়না পাওয়া প্রতিমার কাজ যে এখনও বাকি। এই চিন্তাতেই বিনিদ্র রাত কাটে রবীনের, দুর্বল থেকে দুর্বলতর হয় শরীর, বাবাকে চিন্তামুক্ত করতে আসরে নামে মিনু, হাতে তুলে নেয় প্রতিমা সম্পূর্ণ করার দায়িত্ব। অভিজ্ঞতা বলতে শুধুই বাবাকে কাজ করতে দেখা, অবশেষে ঘনিয়ে আসে দিন, আজ সরস্বতী পূজার আগের দিন, চুক্তি অনুযায়ী ক্লাবের সদস্যরা আসেন প্রতিমা নিতে দুজন বাহকের সহায়তায় মিনুর তত্ত্বাবধানে প্রতিমা আসে সকলের সম্মুখে।

অবাক হয় উপস্থিত সকলে, চমকান রবীনবাবুও। কী চমৎকার প্রতিমা! যৎসামান্য অভিজ্ঞতা ও আপন মনের মাধুরী মিশিয়ে প্রতিমাটি গড়েছে মিনু, সনাতনী মাতৃমূর্তির মধ্যে গ্রাম্য মেধাবী ছাত্রীর প্রতিফলন এই মূর্তিতে, শিল্পীর ভূয়সী প্রশংসা করে মূর্তি নিয়ে যান ক্রেতারা। তাদের প্রশংসার পর মেয়ের দিকে এগিয়ে আসেন রবীন কুমোর, কাঁপা কাঁপা হাত মেয়ের মাথায় দিয়ে স্নেহে বলেন, 'তোর মৃন্ময়ী নাম সার্থক মা, তুই আমার গর্ব রে মা,' খিলখিলিয়ে হেসে ওঠে মিনু মাটির জাদুকর আর তার যোগ্য উত্তরসূরীর হাসি মাটির চারদেওয়াল পেরিয়ে ধ্বনিত হয় আকাশে, বাতাসে, প্রকৃতিতে।



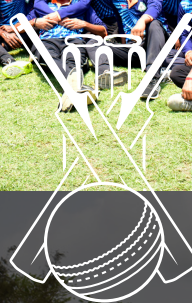
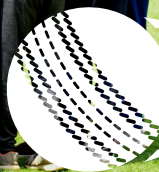
TEAM IARTEFACT, 2018



Piyush Sinha, Data Scientist



SPORTS TRIUMPH



CULTURAL FIESTA



CLIPS



WALL MAGAZINE INAUGURATION



TEACHER'S DAY



TEACHER'S DAY

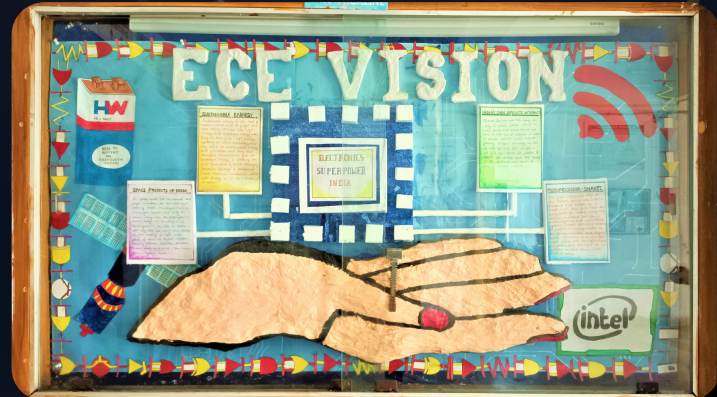


WORKSHOP



IETE

IETE Student's Forum is one of the leading Tech society of HIT Haldia comes under ECE department. This is a group of diligent students from various disciplines of engineering which aims at nourishing students who wishes to yield something innovative in the field of Robotics and many advancing technologies. This society regularly puts up technical events and contests to spread awareness and bring excellency within the students of HIT Haldia



ECE Wall Magazine



IETE Wall Magazine




CALL FOR PAPERS

Conference Dates: March 1 - 3, 2023

Location: Dept. of Electronics and Communication Engineering, Haldia Institute of Technology, Haldia, East Medinipur, WB, India

Important Dates:
 Submission deadline - November 05, 2022
 Acceptance notification - December 30, 2022
 Last date of registration - January 20, 2023

Registration Fees:
 Author registration (Academia/Industry) : INR 6000/ USD 200
 Author registration (Student/AC/PG) : INR 3000/ USD 100
 Participant : INR 2000/ USD 50

Conference Website:
<https://cdcc2023.ecet.haldia.in/>

Chief Patron:
 Dr. Lakshman Chandra Seth, D. Litt., Chairman, HIT Haldia

General Chair:
 Prof. Chanchal Kumar De
 Prof. Pradip Kumar Sahoo

Program Chair:
 Dr. Anant Kumar Roy
 Mr. Tirthadev Saha

Organizing Chair:
 Dr. Sandhya Singh
 Dr. Aniruddh Das
 Mr. Surajit Mukherjee

Welcome to the 4th International Conference on Communication, Devices and Computing (ICCDC 2023) which will be held in Haldia Institute of Technology, Haldia, WB, India from March 1 to 3, 2023.

The proceedings of the conference will be published in Springer Lecture Notes in Electrical Engineering Book series and required International publisher journals having Scopus/ Web of Science - ESCI/ACM/DBLP/ET Indexed special issues. (Approved Printing)

Major Conference Tracks:-

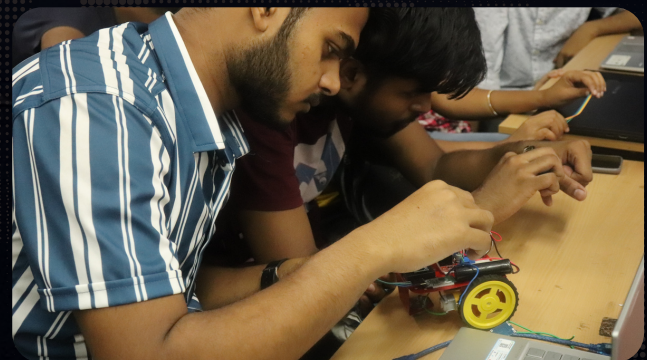
- Track 1: Communication
- Track 2: Devices
- Track 3: Computing

EMINENT SPEAKERS

 Prof. Ramesh Kumar, University of Bihar, India	 Prof. Anil Kumar, Kannur, KERALA, Bangladesh	 Prof. Anand Kumar, Aligarh, UP, India
 Prof. Pradip Kumar, Bhubaneswar, India	 Prof. Chaitanya Kumar, Bhubaneswar, India	 Prof. Sushil Kumar, Bhubaneswar, India

Paper submission link:
<https://easychair.org/conferences/cdcd2023>

Contact us:
 Email: cdcc2023@hit.haldia.ac.in | Voice: +91 99031 22605 | +91 96303 34749



IETE Workshop

Upcoming international conference on Communication device and Computing 2023

PICTURE PERFECT

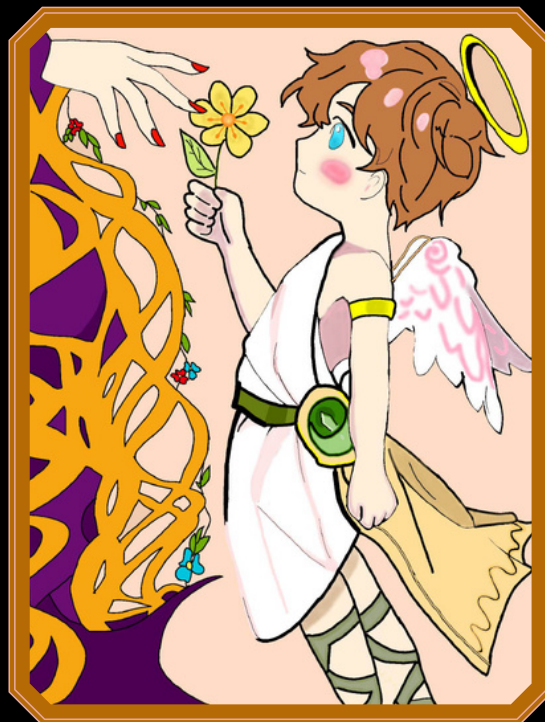


Painting is poetry.
that is seen rather
than felt, and poetry.
is painting that is felt
rather than seen.





Shanu Kumar
21/ECE/148



Kumari Sanjana
21/ECE/073



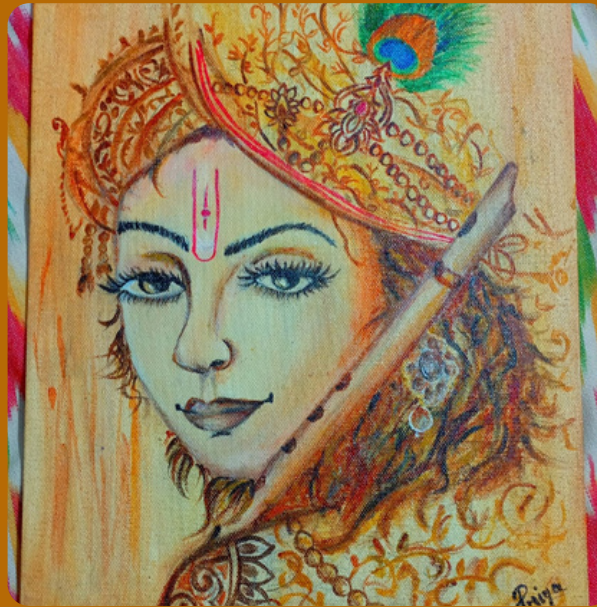
Kumari Sanjana
21/ECE/073



Kumari Sanjana
21/ECE/073



Priya Das
21/ECE/083



Priya Das
21/ECE/083



Amrita Chakraborty
21/ECE/013



Arpan ghosh
L22/ECE/209



Aditya Prakash
20/ECE/012



Priya Das
21/ECE/083



Priya Das
21/ECE/083



Raushan Raj
21/ECE/119



Pratyush Das
21/ECE/097



Priya Das
21/ECE/083



Shanu Kumar
21/ECE/148



Anupam Pandey
21/ECE/025



Sanjeev Kumbhakar
20/ECE/136



Ankrit Samanta
20/ECE/29



Rohit Kumar
20/ECE/129



Ankrit Samanta
20/ECE/29

SENIOR INSIGHTS

What inspires you in college?

I have a consistent source of motivation because I value what I do, which encourages me to give it my all. I believe that the fact that I think differently distinguishes myself from others. I work diligently and with honesty, which allows me to complete my tasks within a given timeframe.

Ritaban Bishwas

18/ECE/042

What is your least favourite subject and why?

My least favourite subject's got to be Signals and Systems. There was too much mathematics involved which I'm already weak in. Always used to get confused with fourier transforms (FFT algorithm saved my life, sadly nothing like that for Laplace transforms). Everything used to go over my head during classes and I'd have to brute force every lesson just to pass the course.

Aniket Sahu

18/ECE/105

What was your most memorable experience in Haldia?

The most memorable moments was the Hostel life that is entirely different from the life at home. It is said home is sweet, but life at home has no comparison to life in a hostel, But there is something we find in hostel like complete independence in a hostel. You may sleep whenever you like. You may get up late in the morning, but no one will question you. Apart from a few rules which everybody has to follow, one is his own master. There is complete freedom. Those who love freedom love hostel life. To be frank in hostel, life is full of amusements.

Sudhanshu Ranjan

4th yr - 2022 batch

What was your most memorable experience in Haldia?

My College days are unforgettable and in fact those days are the most happiest & fruitful days in my life. I proudly feel that I cherished every moments of my college. Being a "HITian" make me feel proud. My experience in HIT was just amazing. I got infinite love & lessons from my teachers and my friends ,juniors . there teachers made me do "Work Hard" for the way to success and other side friends and juniors made my college life much more interesting . Miss those days of HIT. Just want to thank to the wonderful faculty of HIT....I am proud to be a HITian.

Mashhood Ahmad Danish

Batch 2022 , 4th year

What are your interests and passions?

I have a few interests, but lately, I have been spending quite a bit of time learning to code and reading related books. I love reading books because it helps me to broaden my horizons which is beneficial for my coding journey also. Reading a book clears your concepts and make you a clear picture of something. When we have a clear mind, our work efficiency will increase. Other than this, I love playing outdoor games, which include basketball. Playing a game makes a person lively, active, and conscious. I think reading books and playing games are my two interest that provides me extra fuel in my work which escalates my work efficiency.

Thank you!

Smriti Sinha

Roll no- 18/ece/21

What was your most memorable experience in Haldia?

Hii Haldia,

I am Abhineet Saurabh, 2022 batch... I am missing my college a lot.. It was just an amazing place, the weather was quite good and peaceful...though it was hot but we were used to it. It was first time I was exposed to maggi bhaja...that turned out to be one of the best thing I ate

.. I was a regular candidate of tea...and yeah...you all must have seen me near "thek" drinking it...I can I tasted tea of almost all the thek... This is my Alma Mater which will always remain in my heart, I respect all my professors and mates whom I met here. Grateful to almighty to provide me such an amazing opportunity.

Thank You!

Abhineet Saurabh

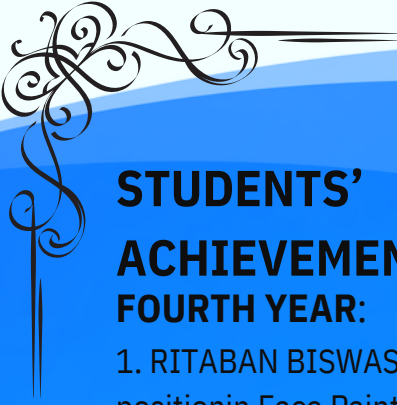
Batch 2022 , 4th year

Placement of 2022

CTS	53
INFOSYS	14
Tcs	15
WIPRO	35
ACCENTURE	16
CAPGEMINI	33

FACULTY AND STAFF MEMBERS

Prof. Chanchal Kumar De	Professor & HOD
Prof. Malay Kumar Pandit	Professor
Prof. Kisalaya Chakrabarti	Professor
Sri Asim Kumar Jana	Assoc. Professor
Dr. Jagannath Samanta	Assoc. Professor
Dr. Avisankar Roy	Assoc. Professor
Dr. Sudipta Bardhan	Asst. Professor
Dr. Avishek Das	Asst. Professor
Dr. Suman Paul	Asst. Professor
Dr. Banibrata Bag	Asst. Professor
Kushal Roy	Asst. Professor
Amit Bhattacharyya	Asst. Professor
Raj Kumar Maity	Asst. Professor
Tirthadip Sinha	Asst. Professor
Surajit Mukherjee	Asst. Professor
Akinchan Das	Asst. Professor
Dibyendu Chowdhury	Asst. Professor
Pinaki Satpathy	Asst. Professor
Santanu Maity	Asst. Professor
Razia Sultana	Asst. Professor
Dipak Samanta	Asst. Professor
Moumita Jana	Asst. Professor
Tilak Mukherjee	Asst. Professor
Jayanta Kumar Bag	Asst. Professor
Sayani Ghosh	Asst. Professor
Pallabi Pahari	Asst. Professor
Sourav Kr.Das	Asst. Professor
Sachindeb Jana	Asst. Professor
Atanu Pradhan	Asst. Professor
Tapan Maity	Asst. Professor
Pulak Maithy	Demonstrator
Shubhendu Barman	Demonstrator
Ira Samanta	Demonstrator
Asim kuila	Demonstrator
Sunetra Maity	Demonstrator
Parswati Banerjee	Instructor



STUDENTS' ACHIEVEMENTS: FOURTH YEAR:

1. RITABAN BISWAS (18/EC/42): Achieved second position in Creative Writing, ACM'19 , Third position in Face Painting, ACM'19 , Third position in creative writing, Recognito (organized by ME Club)
2. ABHINEET SAURABH (18/EC/121): Achieved second position in English Debate Competition , Extravaganza'19 , under top four in Debate Competition District (Paschim Medinipur), conducted by the Times of India and Federal Bank.
3. ANUP JHA (18/EC/99): Achieved third position in Aqua Drift Prayukti'19
4. MANISH KESHRI (18/EC/69): First Position in Robo War, BIT Sindri , second position in Armageddon at HIT, first position in Death Race at IIT ISM Dhanbad
5. ANIKET SAHU (18/EC/105): First position in Death Race, at IIT ISM Dhanbad
6. BHUSHAN YADAV (18/EC/87): Achieved first position in Dive Bomber and second position in Udaan, Prayukti'19
7. KUMAR ABHISHEK (18/EC/74): Third position in Aqua Drift, Prayukti
8. MRITYUNJAY KUMAR (18/EC/003): Third position in Aqua Drift, Prayukti
9. ZAIUL RAHMAN (18/EC/63): Third position in Aqua Drift, Prayukti

THIRD YEAR:

1. ARKABHA MUKHERJEE (19/ECE/33) : Achieved second division from Arians club (state level from school), district level from Sangram samiti football club
2. ALYONA ROY (19/ECE/16) : Achieved first position in ICARE debate competition, first position in Extempore in HIT Annual Cultural meet
3. ANIKET CHATTERJEE (19/ECE/22) : Achieved second position in ICARE solo dance competition
4. SACHIN KUMAR (19/ECE/128) : Achieved second position in Musical Instrument playing competition
5. SHUBHAM KUMAR (19/ECE/150) : Achieved first position in Quizzit event conducted by ME CLUB
6. SEJAL GUPTA (19/ECE/143) : Achieved first position in Armageddon (Auto Bot)
7. SNEHA RANI (19/ECE/154) : Achieved first position in Armageddon (Auto Bot)
8. PRIYA SINGH (19/ECE/102) : Achieved first position in Armageddon (Auto Bot)
7. 9. RASHIKA RAJEEV (19/ECE/115) : Achieved first position in Armageddon (Auto Bot)

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10. SUMANA DAS (19/ECE/168) : Achieved first position in Armageddon (Auto Bot)
 11. ROHAN KUMAR NONIA (19/ECE/122) : Achieved third position in video making organized by ME CLUB
 12. PIYUSH KUMAR SINGH (19/ECE/94) : Achieved third position in video making organized by ME CLUB
 13. PRASHANT KUMAR (19/ECE/96) : Achieved third position in video making organized by ME CLUB
 14. MANISHA KUMARI (19/ECE/70) : Achieved third position in video making organized by ME CLUB
 15. Md. AMINUL HAQUE (19/ECE/73) : Achieved third position in video making organized by ME CLUB
 16. GAUTAM KUMAR (19/ECE/51) : Achieved third position in video making organized by ME CLUB
 17. SAMEER KUMAR (19/ECE/131) : Achieved second position in video making organized by ME CLUB
 18. SHREYAN GAUTAM (19/ECE/149) : Achieved third position in Painting competition organized by Art and Craft club
 19. AKSHAY KUMAR (19/ECE/15) : Achieved first position in Armageddon (Robo Rush)
 20. TASNEEM AHMAD ANSARI (19/ECE/178) : Achieved third position in circuitrix event organized by IEEE
 21. ARYAN KUMAR (19/ECE/38) : Achieved first position in Armageddon (Robo Rush), second position in circuitrix event organized by IEEE
 22. JYOTIRMOYEE SANTRA (19/ECE/61) : Achieved first position in Armageddon (Robo Rush)
 23. AVINASH KUMAR JHA (19/ECE/41) : Achieved first position in Armageddon (Robo Rush)
 24. ARTHA BISWAS (19/ECE/36) : Achieved third position in Chess competition (Shatranj)
 25. PARTHIB SEN (19/ECE/93) : Achieved second position in Mechnovate 2K20 (Meaningful assembly)
 26. AMAN SNEHI (19/ECE/20) : Achieved third position in Armageddon (Robo Rush)
 27. DAYEETA ADHIKARY (19/ECE/47) : Achieved third position in Armageddon (Robo Rush)
 28. AMAN SARTHAK (19/ECE/19) : Achieved third position in Armageddon (Robo Rush)

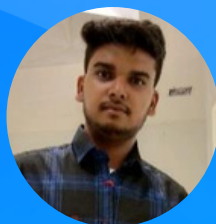
Team iArtefacts



Abhineet Sourabh



Sudhanshu Ranjan



Mashood Ahmad
Danish



Aniket Sahu



Smriti Sinha



Aakanksha
priyadarshini



Oisik Das



Ayush Roy



Sneha Rani



Sejal Gupta



Priya Singh



Rashika Rajeev



Nafisa Sadaf



Royal Ramdas



Nitin Kaushik



Aman Sarthak



Rakshat Kashyap



Debalina Chakaraborty



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Anupama Mondal



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Shristi Raj



Nupur Raj



Aditya Prakash

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Alka Tiwary



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Aditi Anand



Sandhya Rani



Shweta Kumari



Durgesh Kumar
Roy



Suman Saurav



Sanjeev Kumbhakar



Ankrit
Samanta



Priya Shaw



Dibakar Bera



Anish raj



Nitish Kumar



Raj Deepak



Deepak Kumar
Pandey



Sampriti Dhal



Priya Das



Pratyush Das



Manish Kumar



Shanu Kumar



Gaurav
Srivastva



Bhashkar Kumar



Anshu Kumar



STEPHEN HAWKING

"However **Difficult** life may seem,
there is always something you can
do and succeed at. It matters that
you **Don't Just Give Up**"



ECE HOME

Department of Electronics & Communication

Haldia Institute of Technology, Haldia

ICARE Complex, Hatiberia Haldia