

HORIZON & BEYOND

by Department of BCA & MSc(CS)

Vol 2

"OUR BRIGHTEST DREAMS AND GREATEST FEAR ARE
JUST OVER THE HORIZON"

 Editorial

 Tech Article

 About The Department

 Student's Corner

 Awards & Achievements

 Academic & Non-Academic

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Message from Desk!

Department of computer application and science

From The *President's Desk* [Founder]

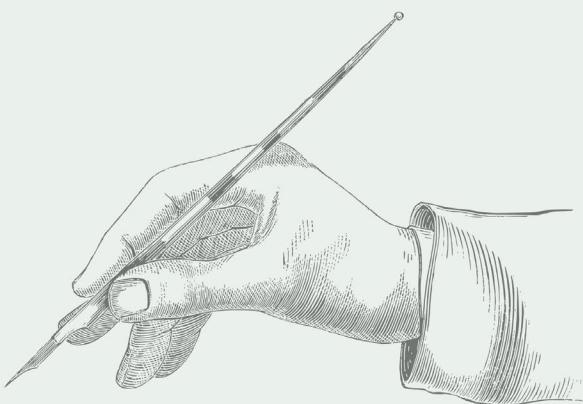


Knowledge is an empowerment. It teaches life to take the right path, accept challenges and make the right decision in every field. We, at IEM, seek to bestow the right education to every student to help them excel in all the spheres of a competitive world.

With a quest to achieve 360 degree growth in areas of multi-disciplinary knowledge, IEM has set its bold footsteps towards earning the status of being the best. Accreditation for excellence in academics, infrastructure and multi-dimensional areas is our moto and resolution. To us, success is a journey...not a destination.

The vision of the institute is to act as a Center of Excellence in teaching and R&D in mutli-disciplinary areas and disseminate the knowledge to our student community and industrial sectors.

We aim to be the best Institute in the field of higher education whose alumni will be of the highest professional competence with high moral and ethical values.



**Prof. (Dr.) Satyajit Chakrabarti
[President]**

Institute of Engineering & Management
Kolkata

From The *Director's Desk* [Founder]



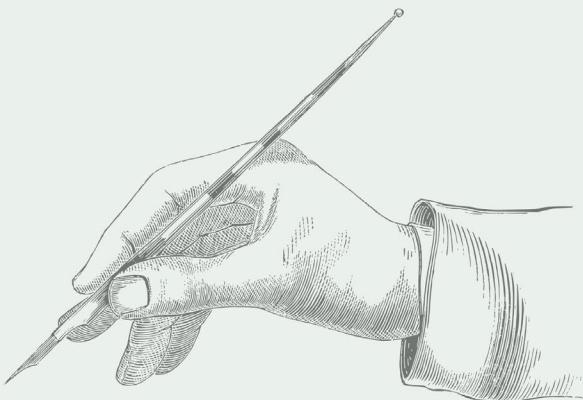
The decisive touchstone of education is the quality culture that encompasses the institution. During this era of Covid-19 pandemic and digital globalization of education, the palpable focus is on the eminence of education. There is no distinct yardstick of excellence. A fine educational institution like our institute of repute strives incessantly for sustenance and enhancement of quality in every field of its activity.

As Institute of Engineering & Management (IEM) works diligently to comprehend its mission of providing the best learning, teaching and research opportunities to students and academicians alike, it continues to deliver students with the fundamentals of modern knowledge and elevated values through activities like college magazine which is a result of our ongoing endeavor to excel and to succeed has penned a saga of success in academic laurels and leadership.

I am gratified to know that the BCA Department of IEM, Kolkata is bringing out the first issue of their departmental magazine "Horizon & Beyond" of this academic year. Beyond Horizon 2020 kindles the imagination of our learners. Cradled in the lap of nature on the one hand and corporate and advanced edifice on the other, swaying from serious thinking to playful inventiveness, our dear students at Institute of Engineering & Management Kolkata are brimming with a zeal for life empowering themselves with skills and creativity.

I congratulate the editorial board who used an assortment of mediums of expression to present their ideas. As long as our thoughts are articulated, and belief kindled, we can be certain of learning, as everything embarks on with an idea. I appreciate every student who contributes to the elation of partaking in co-curricular and extracurricular activities along with their dedication to curriculum.

May Beyond Horizon 2020 enable our learners to experience the dynamicity of education and unearth their hidden talents.



**Prof. (Dr.) Satyajit Chakrabarti
[Director]**

Institute of Engineering & Management
Kolkata

From HOD's Desk



"A good teacher is like a candle, it consumes itself to show path to others !"

Firstly, I would like to welcome you all to the proficient sphere created by IEM for the students of B.C.A and M.Sc(CS). department.

I present my regards towards IEM group president sir Prof. (Dr)Satyajit Chakrabarti, director sir Prof. (Dr)Satyajit Chakrabarti and our principal sir Prof Subroto Bashak for the support and acknowledgement.

It's a matter of utmost glee and privilege to lead a department consisting of highly dedicated personnel who are even ready to walk an extra mile to achieve success.

I personally count on the fact that an institution can be build in many ways but a successful one stands colossal based on infrastructure and the combined efforts of the faculty members and students of the institution.

Our college has the distinction of being known as of the pioneers in the IT education and has been accredited with grade 'A' by NAAC. We always try to empower our students with best teaching faculty, lab facilities and quality education. The placement cell is also very active which mentors and prepares our students as per the custom-made requirements by the industry. Students are also encouraged to indulge in curricular activities hand-in-hand with academics to showcase their talents and shape them as leaders of tomorrow.

Time-to-time we try to give the students a peek into the professional world through industrial visits and by inviting our alumni to share their experiences, which mentally prepares them to face the real world.

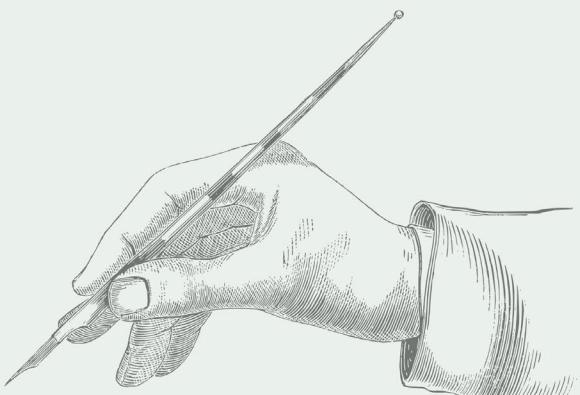
To my students, we all are here to encourage you, support you and to hold your hand taking you forward towards the final destination but it's you who have to come forward and grasp our hand with your dedication and willingness to learn. Put in your effort, implement new things which will help you to run on the tracks of success.

Lastly, I show my gratitude towards our faculty members, the pillars of the department for their dedicated work and for contributing so much to the success of our department. We came a long way together & I entrust, we have even a longer path ahead to walk together.

Wish you all a great academic year ahead!

In this fatal situation when we are locked behind screens, I appreciate the faculty members and the editors who took the initiative and worked so hard behind the publishing.

Hope the tour through the magazine portrays you the world we share!



Abhishek Bhattacharya
Prof. ABHISHEK BHATTACHARYA
[Head of department - BCA and M.Sc (CS)]

From Assistant HOD's Desk



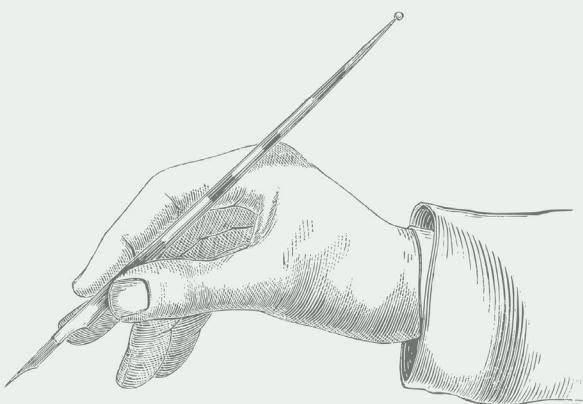
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Dr. Soumi Dutta
 [Assistant Head of department - BCA and M.Sc (CS)]

From Assistant HOD's Desk [Editor]



“A weak link is better than a strong memory”

A world where we solely stay dazzled by technology, nothing exemplifies it better than the nostalgic feeling one gets when leafing through the dusty old pages of his or her college magazine. It can often make a reader travel down the lanes of memory, giving rise to a cascade of emotions of many tints and hues.

I impart my deem towards the support and acknowledgement we received behind publishing the first issue of the magazine. We intend to continue presenting the talent and creativity of our faculty members and students through every viable way.

“Horizon & Beyond”, our departmental magazine is a portrayal of the right blend of the intellectual application of art, literal skills, technical knowledge along with the academic brilliance of our students. I wholeheartedly appreciate the efforts put in by the students and the editorial team who made the idea of a e-magazine work out and bringing it out successfully even in a situation when we are close yet too far.

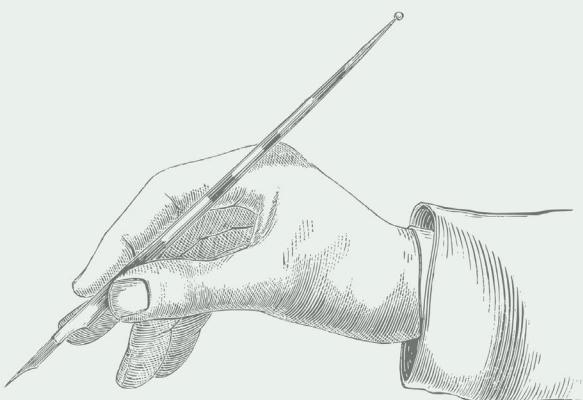
Education in a broader picture appears to be an act that has a formative effect on the mind, character or physical ability of an individual but to a contrast to reality it just appears to be a process by which society deliberately transmits its accumulated knowledge, skills and values from one generation to another without one’s consent.

IEM has always awed creativity and has tried to strike a balance between academics and extra-curricular activities as they help us to improve our soft skills along with proficiency which is essential to face the real professional world. We live in a world where students are intellectual but are robots who do not use their minds to think what they like. Our college tends to provide a mould through workshops, tech-contests, cultural events and social works to shape them as the leaders of tomorrow.

On this occasion, I would like to show my gratitude towards my fellow faculty members and bestow my blessings to my students to keep striving for such excellence and keep progressing in their future endeavors.

Build your own dreams else others will hire you to build theirs! Best wishes.

I hope you immerse yourself in the unfolding art and stay exulted.



Nayantara Mitra

Prof. Nayantara Mitra

[Assistant Head of department - BCA and M.Sc (CS)]
[Editor]

From The Desk

Prof. Ankan Bhowmik



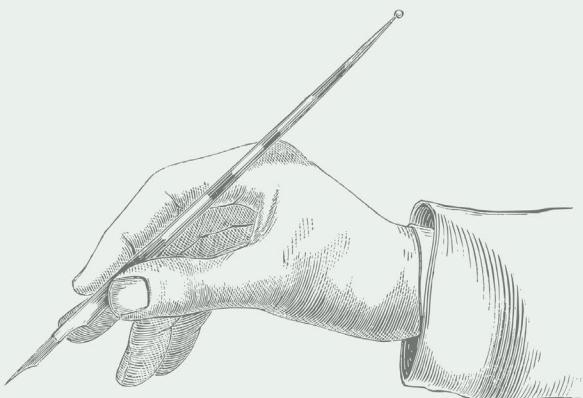
Being a Teacher as well as the co-editor of this wonderful initiative of the departmental magazine “Beyond Horizon”, I would like to express my immense pleasure and pride to be associated with such a venture.

Seeing some of the brightest minds working together day and night and giving birth to some wonderful creative ideas has been a really delightful experience .I wish all our students the very best for their future.

As their teacher or guide I am happy to contribute a little bit for the development of their young minds. I have been part of this teaching -learning process for the last 10 years and I am really privileged to have to the opportunity to guide some of the brightest minds and through that journey I have learned a lot, made some wonderful relationships with all my students.

So here we are presenting you the 2nd edition of departmental magazine “Beyond Horizon” with the hope that with all your support and encouragement this would be a perfect bridge of relationship among all the students, faculties, alumni and the family gets bigger every year!!

Wishing all the best to all my students and my colleagues to make this magazine a huge success and make it memorable for all.




Prof. Ankan Bhowmik
[Department of Computer Application]
[Co-Editor]

From The Desk

Prof. Sujata Ghatak

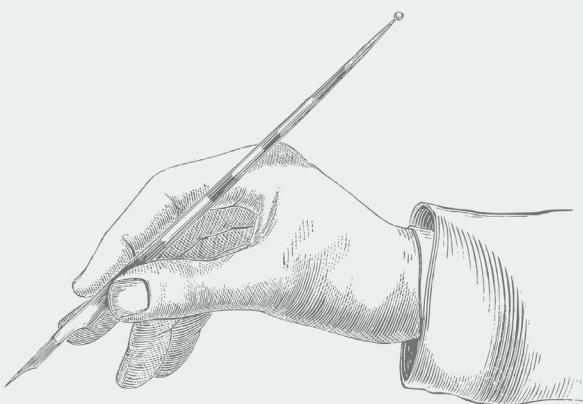


I have always considered education as be a medium of enhancing the personality in terms of compassion, righteousness, endurance and aspiration. With each new era coming into existence, it is evident that a lot is changing and as we proceed in time, the rate of change becomes even more drastic and wavering. Every person strives to achieve more, every person strives to innovate and here comes the age-old notion of competition. Competition has undoubtedly presented an opportunity for rising by improvement however, the sheer challenge lies on the other face of the coin. A crisis is always the ideal moment to visualize the truth and put it to the test of morality. And standing amidst the grim scenario of a fatal world-wide crisis, it would be quite relevant to say that competition is directly or indirectly a major cause behind most of the tragedies spread in every nook and corner of the world.

As a student it should be vital for each one of us to not give in to such rudimentary thinking but to encourage mutual concern. Appreciation is of great value. The quality of thoughts that give rise to such appreciation and a mutual feeling of upliftment is a prerequisite for the thriving of the upcoming generation as well as the generation at present. As long as competition is healthy, and the struggle is thoughtfully elevating enough, the equilibrium remains intact for an ideal situation. The significance of learning should be more appealing to the self than anything else. The ability to comprehend and the motivation to pursue are indeed the key to any achievement. Decision-making capabilities and the knowledge to accomplish one's dreams are the aspects what truly give meaning to life.

One's temperament and perspective are the most sensitive traits that need to be shaped with utmost care and attention. This institute has always focused on the all-round development of a pupil starting from day one. The journey has been long and tedious yet satisfying and joyful. The need to learn to embrace the vices and the virtues together is an essential lesson for life. Continual efforts have always been made to inculcate these principles in the mindsets of the students and the outcomes have delighted us.

The first issue of our departmental magazine "Beyond Horizon" encompasses all the hardships we have undertaken and the journeys that we have embarked on in order to realize and implement quality education through books and beyond books. It is a memoir of our most celebrated triumphs directed towards the attainment of constant urge for superlative knowledge. I hope you have good time going through it.



Sujata Ghatak
Prof. Sujata Ghatak
[Main faculty coordinator]
[BCA and M.Sc Department]

ABOUT THE DEPARTMENT

Department of BCA & M.Sc (Computer Science)

The department aims to develop academically competent and professionally motivated personals, equipped with objective and critical thinking that compassionately foster the scientific temper with a sense of social responsibility. The Department aims at providing high-quality training to students through the latest in computer technology. In order to maintain the standard of education, the department constantly upgrades the academic syllabi so as to keep the students well trained to deal with changing trends in the field of Computer Science and Technology. The syllabi and courseware are planned to be flexible and wide-ranging, incorporating the cutting edge as well as ensuring a firm grasp of core fundamentals. The department has a good record, as many students have been placed well in good IT Companies through campus placement. The curriculum and the lab training help the students in acquiring excellence in their career.

VISION of BCA & M.Sc (Computer Science)

The Department is focused on developing knowledge with reliable, contemporary and integrated technology with the support of teaching, learning, research and service to humanity and leveraging IT to simulate the exchange and creation of knowledge using proven state-of-art technologies.

MISSION of BCA & M.Sc (Computer Science)

- To develop human resource with sound knowledge – theory and practical in the discipline of computing and the ability to apply the knowledge to the benefit of the society at large.
- To inspire the sense of Sincerity in Teaching & Learning, Nobility in Profession and Service to the society for academic & research excellence through continuous process of improvement.
- To generate new knowledge by engaging in cutting-edge research and to promote academic growth by offering state-of-the-art undergraduate, postgraduate course.
- To undertake collaborative projects which offer opportunities for longterm interaction with academia and industry.
- To make the students ready to meet the industry requirements.

DEPARTMENT OF BCA and M.Sc (CS) EXECUTIVE SUMMARY

Admission Quality

BCA-60% Marks in 10th and 12th standard.

M.Sc(CS)-55% Marks in 10th ,12th standard and Graduation.

Placement Quality

100% placement, multiple job offers, significant companies like SAP Lab, Accenture, Deloitte, TCS, Cognizant, Wipro, Capgemini etc.

University Results

98% pass in semester exams.

Higher Studies

Some Students in each year go to USA/EU/Canada and reputed institutes like NIT .

Research and Development

200 research papers and 15 books.

Foreign Exposure

IEM holds conferences in Canada, USA with IEEE, Singapore, Thailand Study Tours.

Stakeholder Feedback

High stakeholder satisfaction amongst students, alumni, parents, corporate.



AWARDS & ACHIEVEMENTS

Talents meeting appreciation...

BCA Department Alumni



SHRI BIRENDRA KUMAR CHAKRABORTY
GOLD MEDAL FOR
THE BEST BCA STUDENT

Sukhen Karfa

DEPARTMENT
TOPPER



Ananya Chourasia



Madhushree Das

BCA Department Alumni

STUDENTS PERFORMANCE **AWARD**



Aharnisha Nandy



Aindrila Ghosh



Gaurab Banerjee



Harsh Jaiswal



MD Zam mam Azam



Neha Yadav



Nitish Agarwal



Rahul Dhar



Resham Mondal



Richard Henry Rozario

BCA Department Alumni

STUDENTS PERFORMANCE AWARD



Riddhi Doshi



Sahil Khanna



Saksham Bhadani



Subham Sharma



Sujoy Kumar
Bhattacharyya



Tridip Kumar
Ghosh



Uddipan Sengupta



Vivek Soman



Yash Kanoria

2018 - 2021

BCA Department 3rd Year



- Operations Intern at Skillenable Fintech Pvt.LTD from 2nd June 2021 to till date
- Completed 3-Months Internship as a Market Research Intern in a Startup

Brotin Bhattacharya

- 2nd in singing competition(words of life)



Debarpita Bhattacharjee



- Nirvana,JAM winner!
- Web Development internship at Education4ol
- Student Volunteer at Developer student club IEM

Shreshtha Mukherjee

- Achieved 1st position in a digital painting competition "SOKHE BOISAKHE" as an artist.



Triasha Chatterjee



- Intern at SAP Labs

Shubhankar Dey

- 3rd in Kathak Dance,Burdwan Poura Utsav
- Senior Diploma holder with Distinction in Kathak & Rabindra nritya Dance



Debapriya Sarkar

BCA Department 3rd Year



Sourav Moitra

- 2nd Place in Skribbl.io, Nirvana 2.0



Rupam Kanjilal

- Internship at OBS as Web-developer
- Internship at Bhavyata Foundation as Graphics Designer



Raja Mishra

- Intern at SAP Labs.



Aditi Agarwal

- Runner Up of IEM HACKATHON 1.0



Payel Basu

- Intern at SAP Labs
- Intern at Applex.in
- Runner-Up of IEM Hackathon 1.0



Tapabrota De

BCA Department 3rd Year



Samridhi Chauhan

- Internship at The Entrepreneurship Network, 2021

- Internship at ALTROS CONSULTANT.



Bristi Banerjee

- Jam(Nirvana 2.0) top 5.



Antara Ray

- Winner at All India Multi - lingula Drama, Dance, Music Contest.



Akash Dey



Triparna Chakraborty

- ANKAN BIVAKAR from Bangiya Sangeet Parishad
- SANGEET BHUSHAN from Pracheen Kala Kendra (Bharat Natyam)

- NSE1 Network Security Associate certification.



Avijit Das

BCA Department 2nd Year



- Won 3rd position in an online photography competition named Aperture 2.1
- Co-founder of an event organizing company "A Ray of Hope".

Achinta Mukherjee

- Winner of Scribble competition organized by Nirvana 2.0



Sreeja Bardhan



Ditsha Paul

- Securing 1st position in FOOD WIZARD event of Sparkquest2.0 of TI Hooghly
- Securing 1st position in MOOD BOARD, photography event of TI Saltlake
- Became ambassador of Sparkquest2.0 of TI Hooghly
- Securing 2nd position in Shadhinotar Saadh (photography) organised by lal matir desh

- Secured 1st position in a Blog writing event in FILANTHROPIA organised by Techno Main Salt Lake



Asutosh Saha



Rayirth Jaiswal

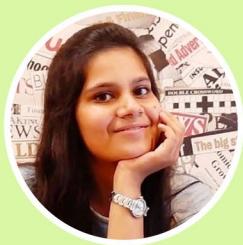
- Digital Marketing Intern at Applex.in
- Graphic Designing Intern at Applex.in
- I am a part of the organizing committee for the Independence Day program.

- Founder of an event organizing company named A Ray of Hope.
- Coordinated the entire function of Independence Day 2021
- Awarded twice as the Volunteer of the Month at an NGO named Crescent.



Avishek Sharma

BCA Department 2nd Year



Nisha Goel

- Nirvana 2.0 Hackathon 2nd Runner Up(3rd)



Shirsha Basak

- Jam(Nirvana 2.0) top 5
- 1st in Singing (word of life)
- Organised Independence day program 2021, IEM



Oishe Chakravorty

- Securing 1st position in singing in Words of Life (Lockdown Diaries).
- Chaitir Kalam - Drawing for a bengali story book "Gaa Chomchom".



Sinjini Mukhoty

- 3rd Place in "ONE MINUTE TO SHOWCASE "in FILANTHROPIA organised by SAMARITANS.



Srija Karmakar

- Internship at leadershala



Pradushmita Sikdar

BCA Department 2nd Year



Soujanya Bose

- Stood 2nd in Recitation competition held by Words of Life (IEM)
- Stood 3rd in Dance competition held by "A Ray of Hope"
- A part of the organising team of Independence Day 2021,IEM(BCA Dept).

- 1st position in "short film" and 3rd position in "story narration" organised by Words of Life by IEM



Sayani Basak



Debangon Dutta

- 3rd in Photography Event (Chasing Moments)

- I have secured 1st position in "Short Film" organised by Worth of Life held online on 24th Nov'20



Ankita Saha



Shreedatri Banerjee

- 1st Runner Up, Crudebits.



M.Sc(cs) Department Alumni



DEPARTMENT
TOPPER

Eshanee Nandi

STUDENTS PERFORMANCE
AWARD



Arjama Chatterjee



Debaditya Mondal



Prithwidip Das



Shayan Pal

COVID-19

HEROES

Thank-you for lending a hand in need !



During the first wave, when everyone was locked inside. He took an initiative of supplying the daily essentials, medicines, food to the needy at their doorstep for absolutely FREE. He posted his number on the social media and the ones who needed the service used to call him. He used to get those items from the market and deliver it to them."

- **Harsh Jaiswal** [BCA - Alumni] (Individual)



She have worked as volunteer under NGO named muskurahat foundation as a fundraising for the underprivileged children under a project name " project KEYtaab". KEYtaab is Muskurahat's initiative to cater to the holistic development of these children, bringing focus to their upbringing, enhancing 21st century skills and providing mental health care through a customised experiential learning curriculum."



- **Anjali Thakur** [BCA - 2ND YR] (Muskurahat foundation)



He and his group have distributed healthy packed lunch for more than 45 vagabonds, beggars, mentally and physically challenged people for more than 200 days. They have visited several villages and have served them with a healthy meal and essential goods and have distributed masks to front line warriors and children of distressed areas and have tried to built houses for those who had lost their houses due to 'Amphan'. They have distributed more than 1000 clothes in a village named 'Asansuli' in this COVID-19 situation and also celebrated Bhai dooj with mentally and physically challenged persons.

- **Debsankar Saha** [BCA - 2ND YR] (Birbhum titli)



COVID-19

HEROES

Thank-you for lending a hand in need !

In this covid situation we all know very well that how there was crisis of oxygen cylinders. Souvick and his Red Volunteerer team had provided many patient with oxygen cylinders. May be it was day or night the Red Volunteers were present to help them at any cost. He is proud to be a part of this group. As He also got chance to help them with his little bit tution income fees. By noticing the work 'BARASAT UTSOB' gave them 'Covid sommanona' in the form of certificate and greetings with there beautiful words not only this, In this pandemic they came to face flood due to heavy rain fall. There, In Himalganj near Sundarban they visited to help and fight for them to make them safe there also he contributed as much he can. Also during the crisis of blood in the blood banks he and his teams organized a BLOOD CAMP where total 15 -20 members donated their blood in this hard situations. He is very thankful to the team to suport each and everyone and making a part of their journey too. "

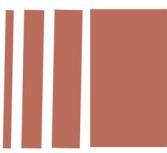
- **Souvick Das** [BCA - 2ND YR] (SFI - Red volunteer)



Elysian_cares is actually an Instagram page under a foundation known as Elysian_foundation. During this pandemic she and her team members have created this page to spread information about bed vacancy, vaccination centers, oxygen suppliers and food providers in Kolkata.

- **Pradushmita Sikdar** [BCA - 2ND YR] (Elysian_cares)





ACADEMIC
NON ACADEMIC

ACADEMIC

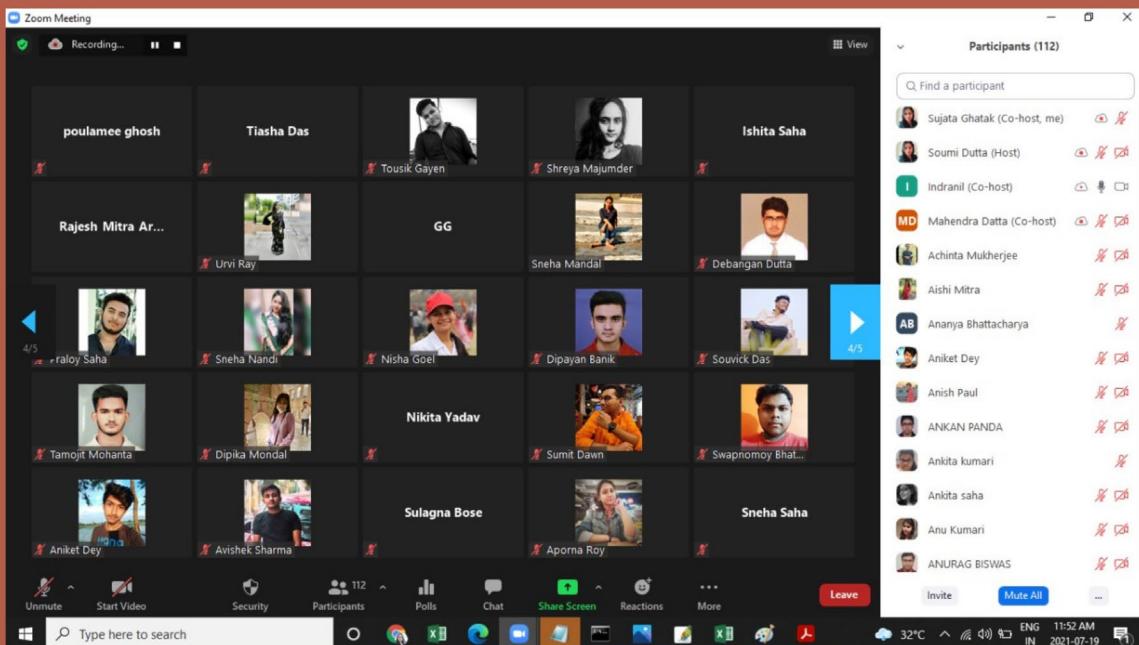
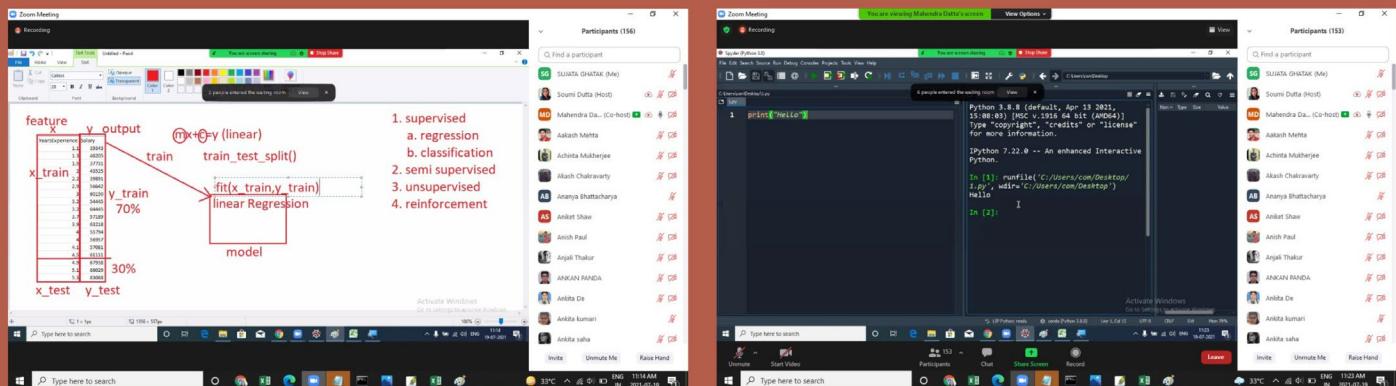
Besides the academic curriculum and wonderful placement records, the department also organises various seminars, workshops, orientation, distinguished lectures, etc. Let us go through some of the events organised in the academic year of 2020-21.

WORKSHOP :

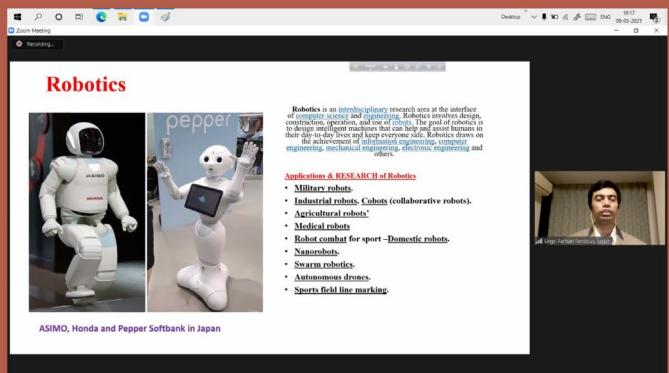
The workshops are conducted to develop and strengthen the fundamental skills as well as enrich the students with the knowledge of the various programming languages and information technology aspects that are currently used in the corporate sector.



This workshop was conducted on 19th July 2021 where speaker Mahendra Dutta had shared lots of information on MACHINE LEARNING WITH PYTHON.



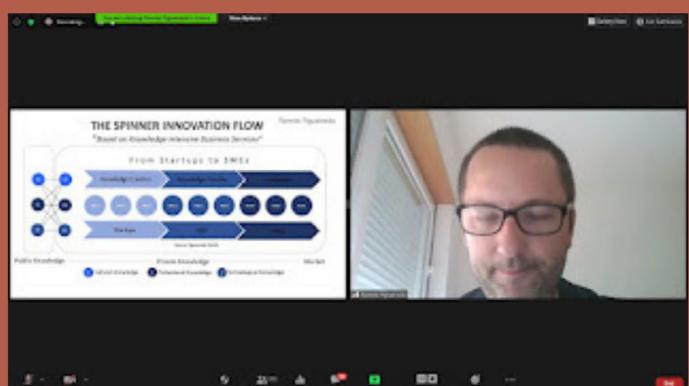
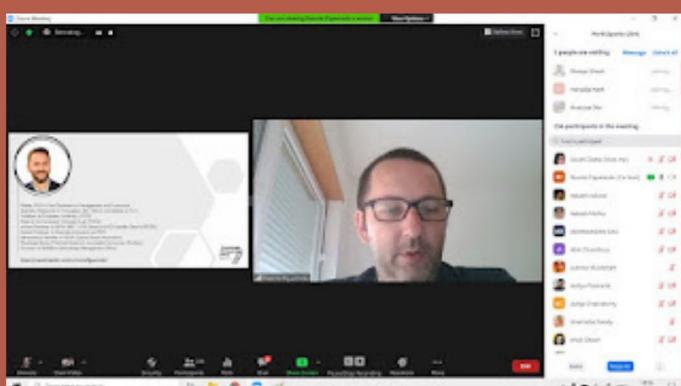
This workshop was conducted on 9th May 2021 where speaker Mohammad Farhan Ferdous had shared lots of information on ROBOTICS AND ADVANCED TECHNOLOGIES



DISTINGUISH LECTURE:

During the orientation period, many personalities from various fields interact with the 1st year students.

This distinguish lecture was conducted on 28th August 2021 where speaker Ronnie Figueiredo, Founder of KMOFFICE, Professor at European University, Head of European Innovation Lab, Scientific Researcher in Innovation UBI / NECE was the speaker.

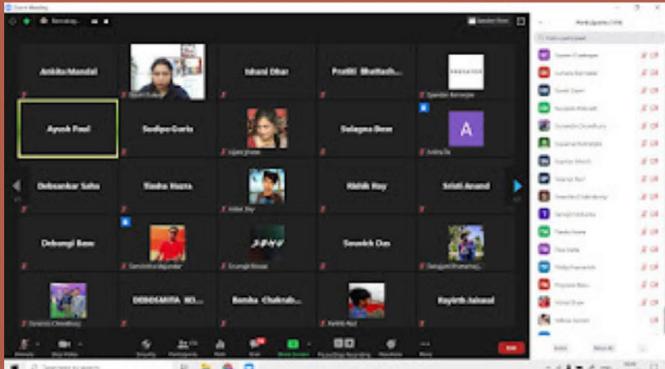


INDUSTRY TALK:-

The Industrial talks are one of the most essential parts of the curriculum as various experts from the IT industry arrive at the campus from time to time, to share their knowledge and interact with the students, helping them to learn more and gather information about the trending topics and upcoming changes in the industry from the experts themselves.



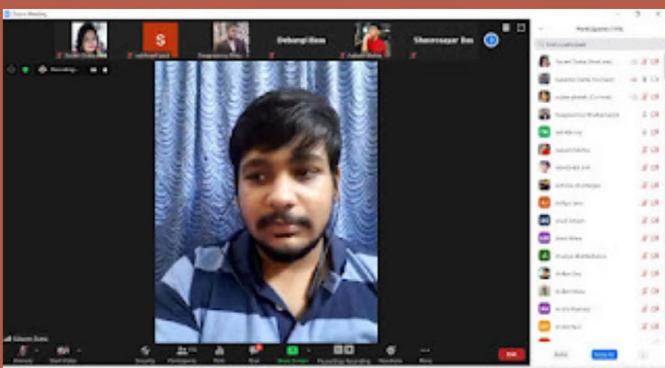
Title- YOU ARE YOUR OWN BEST COMPETITOR



Speaker : Ayush Paul



Speaker : Abhinaba Chakraborty



Speaker : Sukanto Dutta



Speaker : Shashank Mishra



Speaker : Mr. Pittrak Sarkar.

SCIENCE DAY:

National Science Day is celebrated all over India with great enthusiasm on the 28th of February every year in order to commemorate the invention of the Raman Effect in India by the Indian physicist, Sir Chandrasekhara Venkata Raman on the same day in the year 1928. For his great success in the field of science in India, Chandrasekhara Venkata Raman was awarded and honored with the Nobel Prize in Physics in the year 1930.

This year due to the pandemic of Covid-19, Institute of Engineering & Management, Department of Computer Science and Application celebrated the event by organizing an online webinar.



**Science Day was conducted on 1st March 2021 where speaker
Shatadal Ghosh, Rania Lampou & Dr. Anupam Deb Sarkar
hosted the event.**




Institute of Engineering & Management


DEPARTMENT OF COMPUTER SCIENCE AND APPLICATION

Celebrates

NATIONAL SCIENCE DAY 2021

IN ASSOCIATION WITH PASCHIM BANGA VIGYAN MANCHA

DATE : 01- 03 - 2021
TIME: 2:00 PM ONWARDS

CONNECT US AT ZOOM : <https://zoom.us/j/97691371783>



RANIA LAMPOU
GLOBAL EDUCATOR, STEM INSTRUCTOR,
ICT TEACHER TRAINER,GREECE



SHATADAL GHOSH
CURATOR (GR-A OFFICER) AT NATIONAL COUNCIL
OF SCIENCE MUSEUMS (NCSM), MINISTRY OF
CULTURE, GOVT OF INDIA

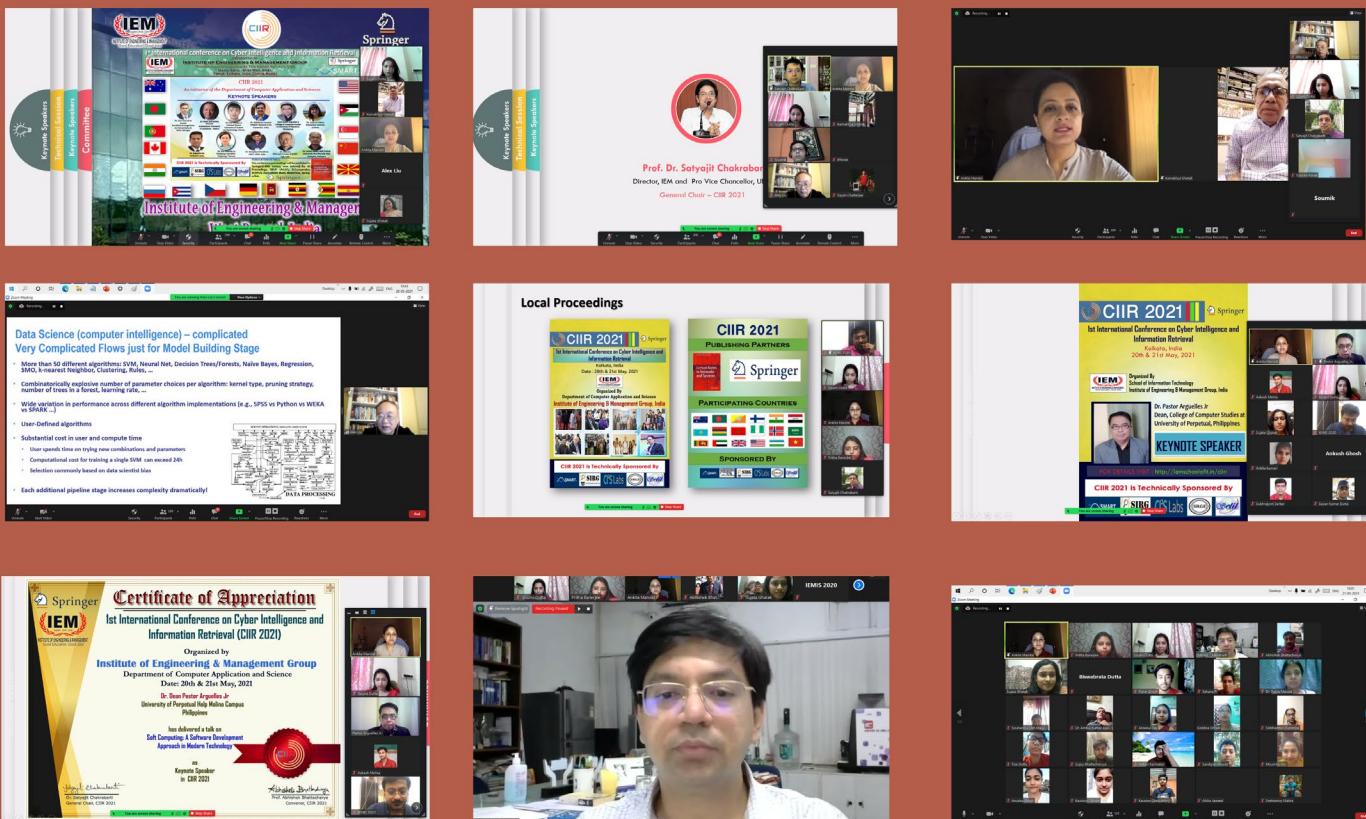


Dr. ANUPAM DEB SARKAR
ASSOCIATE PROFESSOR, ENVIRONMENTAL
ENGINEERING DIVISION, JADAVPUR UNIVERSITY,
INDIA

CONFERENCES:

• CIIR 2021:

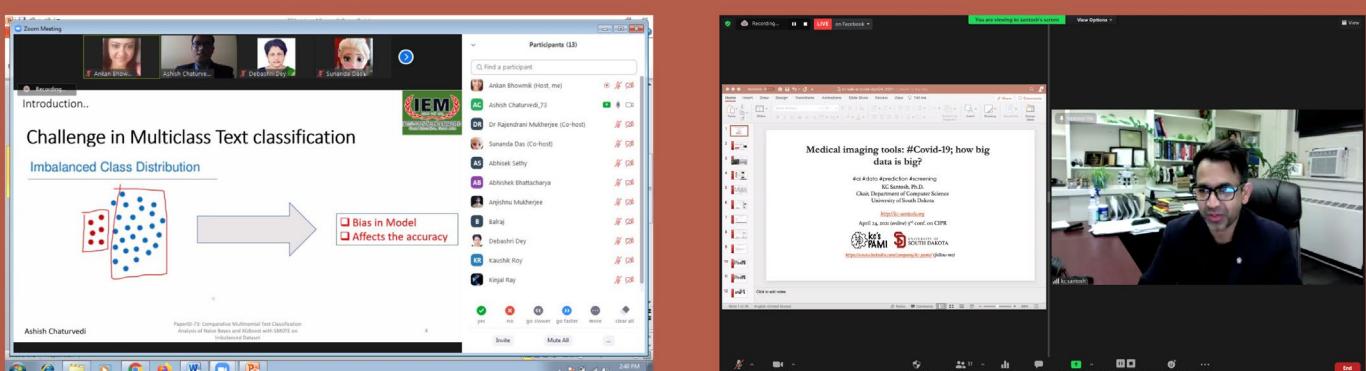
1st International Conference on Cyber Intelligence and Information Retrieval (CIIR 2021). It provided opportunities for inspiring young scholars to learn newly created avenues of research at an international academic forum.



• CIPR 2021:

3rd International Conference on Computational Intelligence in Pattern Recognition (CIPR). The conference aims at bringing together the researchers, scientists, engineers, industrial professionals and scholar students in their domain of interest. Also, it concentrates on both theory and practices from around the world in all the areas of related disciplines of Pattern Recognition.

CIPR 2021 was conducted on 24th & 25th April, 2021



CIPR 2021

3rd International Conference on Computational Intelligence in Pattern Recognition

Prof. Oscar Castillo
Tijuana Institute of Technology, Mexico

Asit Kumar Das

Optimization of Type-2 Fuzzy Systems: Theory and Applications

Prof. Ashish Ghosh
Machine Intelligence Unit, ISI

Title of the talk:
Deep Learning for Classification



- WEBINAR :

IEM Research Talk

Organized by
Department of Computer Application and Science

BY

Dr. Debabrata Samanta
Assistant Professor, Department of Computer Science
CHRIST (Deemed to be University)

Date: 26th February 2021
Time: 4:00 PM to 5:00 PM

Title of Talk:
How Secure we and Our Data

This webinar was conducted on 26th February 2021 where speaker Dr. Debabrata Samanta had shared lots of information on HOW SECURE ARE WE AND OUR DATA.

Another webinar was conducted on 22nd July 2021 where lots of information on COVID-19 EMERGENCE AND FUTURE TRAJECTORY was shared by Dr. Shally Awasthi, Dr. Amitabha Nandi, Dr. Subhro Bhattacharya and Dr. Kunal Sarkar

Webinar on COVID-19 Emergence and Future Trajectory

IEM Organized by Department of Computer Application and Sciences **IEM**
Institute of Engineering & Management

Friday, 2nd July 2021 at 3:00 PM(IST) onwards



Dr. Shally Awasthi
Professor, King George's Medical University, Paediatric Pulmonologist Lucknow, India



Dr. Amitabha Nandi
Virologist, Former Consultant -World Health Organisation (WHO), Kolkata, India



Dr. Subhro Bhattacharya
Protocol Officer, Medical Officer, Dept of Health of F&W, Govt of West Bengal, Kolkata, India



Dr. Kunal Sarkar
Senior Vice Chairman & Senior Consultant Cardiac Surgeon MEDICA Superspecialty Hospital, Kolkata, India

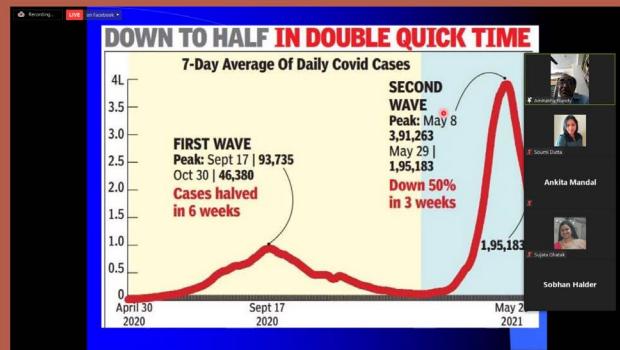
Join us:



<https://zoom.us/j/94770613685>

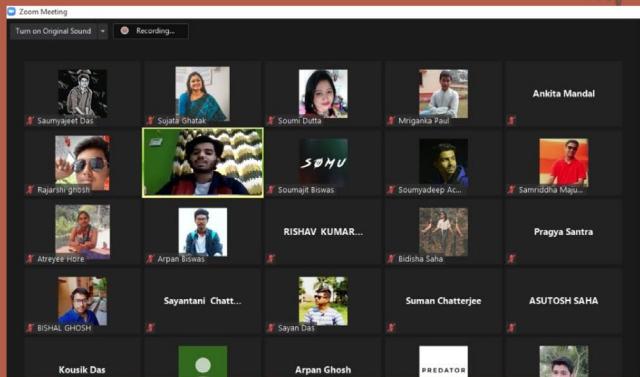


Prof. Abhishek Bhattacharya, IEM, Kolkata
Prof. Sujata Ghatak, IEM, Kolkata
Dr. Soumi Dutta, IEM, Kolkata

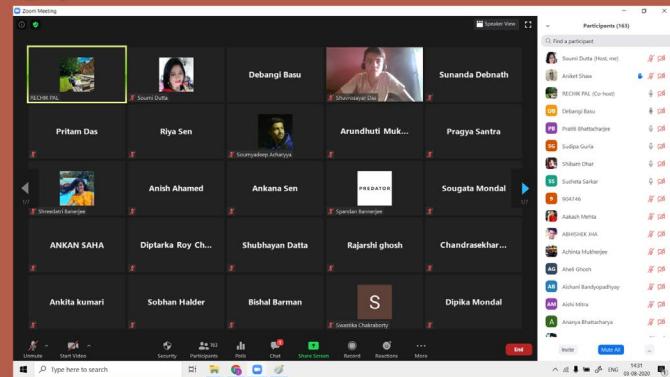


• ALUMNI INTERACTION :

The pass-out students of the department interacted with their juniors to share their experience during their time at the college and about their corporate life or pursuing higher studies.



Mr. Abhishek Mishra (2016-2019)



Mr. Rechik Paul (2016-2019)



Mr. Bhuan Agarwal (2017-2020)



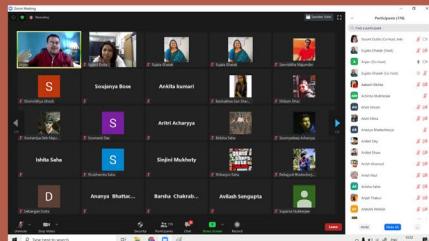
Ms. Aheli Basu (2014-2017)

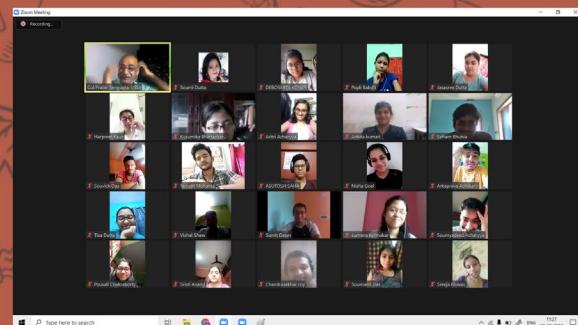
• ORIENTATION:

The Orientation period lasts around two to three weeks, and it acts as an ice-breaker for the new students as they get to interact with each other and accommodate with the new surroundings. Also they get numerous opportunities to interact with various respected personalities from different walks of life who are invited to share their experience and enrich the students' interest for stepping up to face the new challenges.



Mr. Anjan Chowdhury

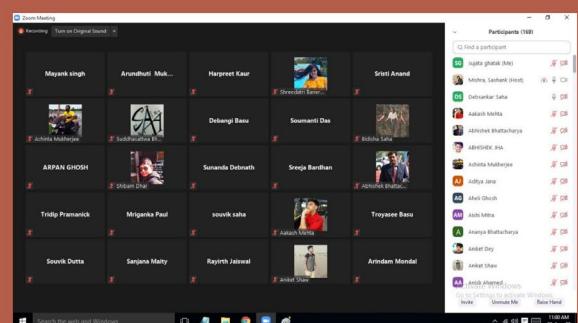




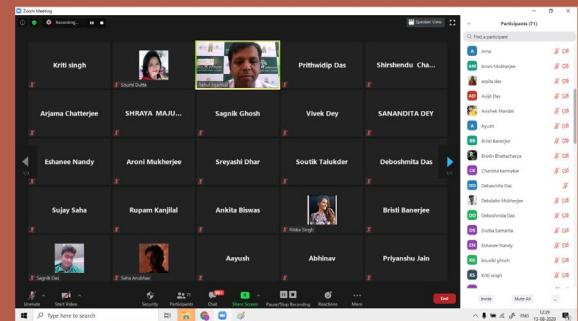
Col Prabir Sengupta, VSM



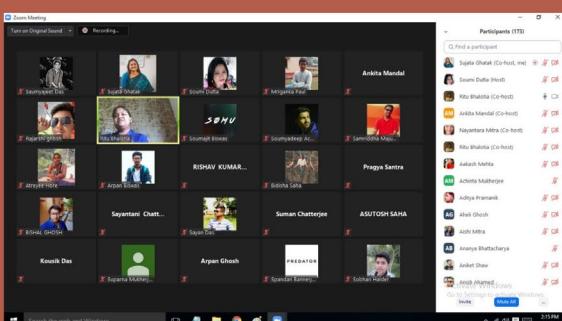
Ms. Jayita Saha



Mr. Amit Das



Mr. Rahul Agarwal



Ms. Ritu Bhalotia

FACULTY DEVELOPMENT PROGRAM:

Cybercrime is a global problem that's been dominating the news cycle. It poses a threat to individual security and an even bigger threat to large international companies, banks, and governments. Today's organized cybercrimes far out shadow lone hackers of the past now large organized crime rings function like start-ups and often employ highly-trained developers who are constantly innovating online attacks. With so much data to exploit out there, Cybersecurity has become essential. Department of BCA and M.Sc(CS) is organizing a 6 days FDP on Cyber Intelligence and awareness on Social media Security.



This program was conducted on 26th to 31st July 2021



FDP on Cyber Intelligence and awareness on Social media Security



Institute of Engineering & Management



Organized by

Department of Computer Application and Sciences

Date: 26th to 31st July 2021



Sandip Sengupta
Founder and Director,
Indian School of Ethical
Hacking



Dr. Constantinos Patsakis
Associate professor,
Department of Informatics,
University of Piraeus,
Piraeus



Mukesh Choudhary
Cyber Security Expert
Founder & CEO of
Cyberops Infosec,
India



Mr. Vishwanath Pratap
Singh
Cyber Law Consultant in
Criminal Law, Supreme
court, India



Bivash Choudhury
Special Public Prosecutor
Cyber Law & E-Evidence,
High Court,
Kolkata



Dr. Sanjit Kumar Setua
Associate Professor,
Dept. of Computer
Science and Engineering,
University of Calcutta

6 Days Faculty Development Programme



Join us: <https://zoom.us/j/96971348548>

Prof. Abhishek Bhattacharya, IEM, Kolkata

Prof. Sujata Ghatak, IEM, Kolkata

Dr. Soumi Dutta, IEM, Kolkata



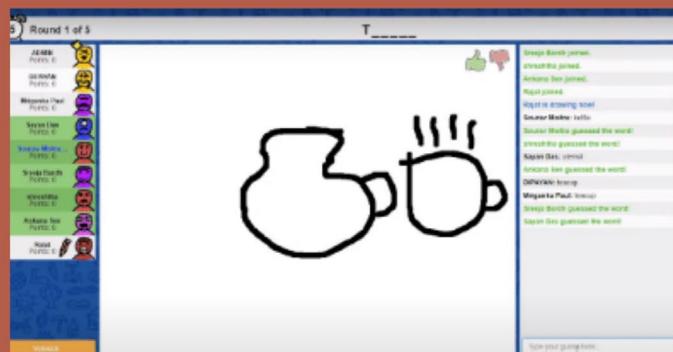
NON ACADEMIC

NIRVANA'21 :

NIRVANA'21, a 3-day Inter College fest of Institute Of Engineering & Management (IEM),Kolkata organised by Department of Computer Application and Science .The second edition of NIRVANA'21 is held from 5th-8th July,2021 in online mode. Both technical and non technical events were organised.



DAY 1: PES MOBILE, SKRIBBL, VALORANT (GAMING EVENTS)



DAY 2: HACKERRANK CODING COMPETITION, BATTLEGROUNDS MOBILE INDIA, BUSINESS IDEAS



But should we learn it only because it provides a way to boost math skills?

A cognitive skill development programme where students emphasize on:

MIND MOVIE
when imagining the beads

COGNITIVE CONNECTIONS
when recalling the answer

VISUAL REPRESENTATION
whenever they plan out how to do a work

● ● ●
**DAY 3: PHOTOGRAPHY CONTEST ,
 CREATIVE WRITING , JAM**
 ● ● ●



WINNER

> SURAJIT SAHA
zoom



1ST RUNNER UP

> MRITUNJOY DEB
zoom

2ND RUNNER UP

> DEBANGAN DUTTA
zoom

■ APERTURE 2.1 :

"Aperture 2.1" was organised by the Department of Computer Application and science for all candidates who have passion for photography. The event was held on 23rd July, 2021 in online mode.

IEM PRESENTS
APERTURE 2.1
 SHOW UP YOUR PHOTOGRAPHY SKILLS
 ORGANIZED BY
 DEPARTMENT OF COMPUTER APPLICATIONS AND SCIENCES
23RD JULY
 THEME - NATURE
 WIN UPTO
 CASH PRIZE 2K
 ENTRY FEES : RS. 30
 Last Date to Register 20th July
 SPONSORED BY -
 PARTICIPATION CERTIFICATES FOR ALL
 EVENT COORDINATORS
 BRIJENDRA SHOUKAL : +91 9895227162
 SNEHITA SHOUKAL : +91 9910324144

Pritha Banerjee, Dr. Ratna Mard...
 Avishek Sharma..., Kaustury Ghosh...
 Sunando Chow...
 Debmrita Kon...
 Aritri Achary...
 Pradushmita Si...
 Arka Prava Ad...
 Sneha Dhar Ch...
 Arijit Das, Nayantara Mit...
 Shreetanu Ban...
 Suparna Mukhe...
 Ankita De
 Tamojit Mohan, Sathi Banerjee
 Shouvik Kar, Su Amo E Chin...
 Soumi Dutta
 Ankita Mandal, Arijit Roy Cho...
 Shirsha Basak, Sumit Dawn
 zoom

WOMEN'S DAY CELEBRATION:

Every year, IEM BCA Department organizes a series of activities at Ashram Building to celebrate International Women's Day.

• • •
this year due to pandemic it was conducted in online mode. On 8th March, 2021, we celebrated "INTERNATIONAL WOMEN'S DAY" with our GUEST OF HONOUR Dr. Celia Shahnaz.
 • • •

It was followed by Interactive session and discussion on Women Empowerment by following panellists:

IEM Institute of Engineering & Management
 DEPARTMENT OF COMPUTER SCIENCE AND APPLICATION
Celebrates
INTERNATIONAL WOMEN'S DAY
"Choose To Challenge"
 Date : 8th March 2021 Time: 2:00 PM Onwards
 ALOKANANDA ROY INDIAN ACTRESS, DANCER, SOCIAL ACTIVIST
 ANJAYA BIRHA INDIAN POLICE SERVICE SPB
 URMIMALA BAGCHI ACTOR, RECITER & SOCIAL ACTIVIST
 PREETHA BALAKRISHNAN WOMEN'S INDEPENDENT COACH
 MONMUNI MUKHERJEE RECITER & ANCHOR
 CONNECT US AT ZOOM : <https://zoom.us/j/91550659845>



IEM Institute of Engineering & Management
 DEPARTMENT OF COMPUTER SCIENCE AND APPLICATION &
 DEPARTMENT OF ELECTRONIC AND COMMUNICATION ENGINEERING
Celebrates
INTERNATIONAL WOMEN'S DAY
 DATE: 08TH MARCH 2021 TIME: 2:00 PM ONWARDS
 CONNECT US AT ZOOM : <https://zoom.us/j/92993804734>
GUEST OF HONOUR
 Dr. Celia Shahnaz
 Ph.D, SMEEE, FIEB
 Professor, Department of EEE,
 BUET, Bangladesh
 IEEE Bangladesh Section
 JOINTLY ORGANIZED BY
 IEEE Women in Engineering
 IEEE WIE MEMBER, BRANCH ADVISORY WIE AFFILIATE GROUP
 PROF. RATNA CHAKRABARTY,
 DEPARTMENT OF ELECTRONIC AND COMMUNICATION ENGINEERING,
 INSTITUTE OF ENGINEERING & MANAGEMENT, KOLKATA
 IEEE KOLKATA SECTION,
 IEE WIE MEMBER, BRANCH ADVISORY WIE AFFILIATE GROUP
 DEPARTMENT OF COMPUTER SCIENCE AND APPLICATION,
 INSTITUTE OF ENGINEERING & MANAGEMENT, KOLKATA
 IEEE BANGALORE SECTION,
 IEEE WIE MEMBER
 IEEE AFFINITY GROUP, IEM KOLKATA

MEN'S DAY CELEBRATION :

INTERNATIONAL MEN'S DAY WAS CELEBRATED BY THE DEPARTMENT OF BCA & M.Sc(CS) ON 21ST NOVEMBER,2020.

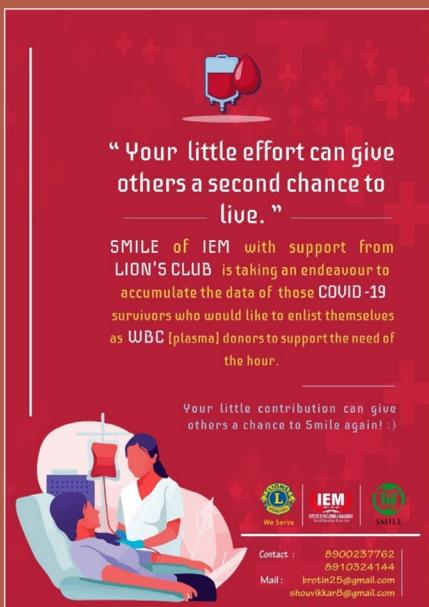


SMILE :

Students Mending Individual Lives Everywhere is an Institutional Social Responsibility Committee. Founded in 2018, SMILE supports the disadvantaged and deprived parts of the society and spreads smiles. SMILE also focuses on the protection of the environment, and organises events to make this world a better place to live in.

List of Events Organised by SMILE:

"Life without helping others is no Life." The whole world is facing the COVID-19 pandemic. During this tough time, we should stand for our brothers and sisters who are in need of help. SMILE of IEM has collaborated with the LION'S CLUB in an endeavour to collect the details of the COVID-19 survivors who are willing to donate blood that can save life of the COVID-19 patients using the plasma therapy.



On 26th June,2020 WORDS OF LIFE in collaboration with SMILE organised a Webinar on busting myths about Covid & how to handle the situation. Speakers were frontline workers – DR ATANU KUMAR MANNA & a Covid survivor, MR SARVESH AGARWAL.



FAREWELL OF THE BATCH 2018-2021 :

"Every new beginning comes from some other beginning's end. Goodbyes are always temporary, what remains is the cherished memories and the urge to meet again!"



On 27th July, 2021 the 1st and the 2nd year students hosted a Farewell party via Zoom for their beloved seniors.



STARTUPS

Start Your Dream Now

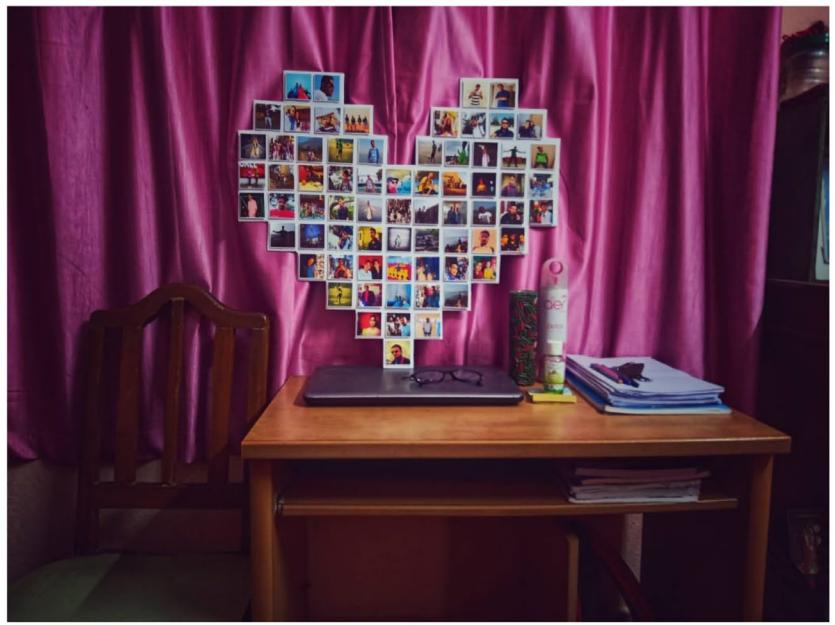




CRAFT_N_CREATIONS

"Handmade customised gift items"

Partners: Sreyashi Dhar, Srimoyee Bera





TRAVELLING FRIDAYS

"Travelling Fridays is a perfect tour guide for the wander lovers in the world of virtual travelling. We provides digital content & also a proper guidance for tourist. Travelling fridays supports & promotes local travelling. We started our journey on 5th July, 2020. Very Soon we will be working with HIDCO Kolkata."

Partners: Deboleena Ghosh, Debmalya Dutta





BRODBILL IT SERVICE AND SOLUTIONS

Brodbill I.T Services & Solutions is an IT Consultant firm in India, We offer services like Software Development, Website Designing, Web Development, SEO, Mobile App Development, Graphic Designing.

Partners: Yash Kanoria, Shubham Sharma





CRUDEBITS FOUNDATION

CrudeBits is a nonprofit organization where we are looking forward to provide a day's food to underprivileged children. We teach technical students on the basis of their interest/hobbies and they work for us by giving us their blogs and designs. We upload them in different social media platforms to earn attention towards this cause. And we earn the sum of money through different competitions which one can apply at a very reasonable cost.

Partners: Avijit Das, Akshita Das, Brotin Bhattacharya





CORE LABS

CoreLabs IT Services is an online web service portal offering several services to aid the online growth and development of an individual or organisation

Partners: Raja Mishra, Rupam Kanjilal

CORE LABS



STYCHFIT

With StychFit, its easy to customise your dress online and get it delivered at your doorstep that is tailor-made to fit you and your lifestyle perfectly. It saves you from finding a good tailor and long waiting times. At StychFit we believe in customer satisfaction and everyday we walk a step closer to that.

Partners: Harsh Jaiswal





A RAY OF HOPE

We are an event organizing company. We organize events 3-4 times a year based on various fields, along with various remarkable prizes and certificates signed by renowned Judges. We also take pride to entertain people via our YouTube channel, as we create contents soothing to one's heart.

Partners: Avishek Sharma, Achinta Mukherjee.

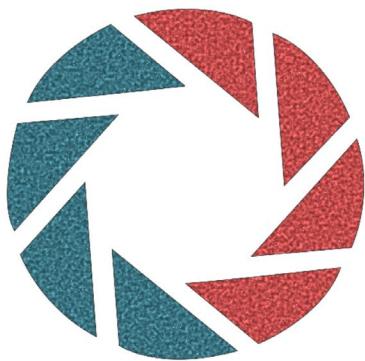




SHUTTER BUG CREATIONS

The Shutter Bug Creations is a budding start-up based in Bengal. Our team focuses on capturing rare frames from life in all of its fleeting moods. What we cover is not just limited to pre-wedding and wedding photography, model photoshoots or street photography but also extends as far as making short films, music videos and event/theme photography. Because some stories seek permanence. And some moments are always worth reliving.

Partners: Sneha Dhar Chowdhury, Tousik Gayen



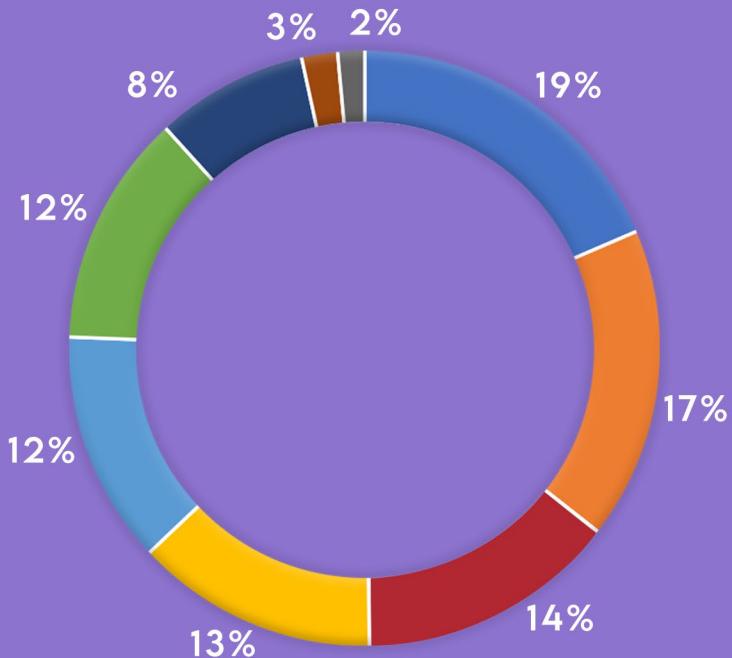
SHUTTER BUG
Creations



PLACEMENT AFFAIRS

Knowledge Meeting Opportunities...

PLACEMENT **2K21**



6 Students : 5 Job Offers
 13 Students : 4 Job Offers
 26 Students : 3 Job Offers
 10 Students : 2 Job Offers
 25 Students : 1 Job Offers

PERCENTAGE OF CANDIDATES RECRUITED



72% Students
with more than one job
offers

Highest recruitment by
SAP Lab, Infosys, CTS, Deloitte,
Capgemini in West Bengal in 2021

Highest recruitment
by
SAP in Eastern India

HIGHEST NO. OF JOB OFFER GETTERS IEM BCA (2018-2021)



Resham Mondal
6 Offer Letters



Shuvadip Ghosh
5 Offer Letters



Harmanpreet Singh
5 Offer Letters



Yash Kanoria
4 Offer Letters



Souvik Das
4 Offer Letters



Anasuya Dev
4 Offer Letters



Rahul Dhar
4 Offer Letters



Balraj Singh
4 Offer Letters

Deloitte.

ADITYA KUMAR BHATT
 ANANYA CHOURASIA
 ANIRBAN MUKHERJEE
 ANKUSH YADAV
 BIROL ROY
 DIBISHA DAS
 GAURAB BANERJEE
 HARSH JAISWAL
 MADHUSHREE DAS
 NEHA YADAV
 PRITHWIS BANERJEE
 RICHARD HENRY ROZARIO
 RIDDHI DOSHI
 ROUNAK CHAKRABORTY
 RUPAYAN BANERJEE
 SAKSHAM BHADANI
 SHRESTHA KUNDU
 SHRINJAN PAL
 SHUVAM GHOSH
 SOUMMAJIT SEN
 SUJOY KUMAR BHATTACHARYYA
 SUKHEN KARFA
 SUNETH PATNAIK
 TRISSHANTO DAS
 UDDIPAN SENGUPTA
 VIVEK SOMANI
 YASH KANORIA



AAKASH JAISWAL
 AINDRILA GHOSH
 HARMANPREET SINGH
 RAHUL DHAR
 RESHAM MONDAL
 RITUPARNA NANDY
 SOUVICK MONDAL



AKASH CHOWDHURY
 SHUVADIP GHOSH
 YASH KANORIA



Let's Solve

ABHINANDAN DAS
 ABHISHEK JHA
 ADRIJA CHAKRABORTY
 AHARNISHA NANDY
 AINDRILA GHOSH
 ANASUYA DEV
 ANUSRI ADHIKARY
 ANUSUA MAJUMDER
 AYUSH PODDER
 BALRAJ SINGH
 HARMANPREET SINGH
 NITISH AGARWAL
 PRITAM VERMA
 RESHAM MONDAL
 SAGNIK GHOSH
 SAIKAT ROY
 SAPTARSHI BANERJEE
 SARTHAK DUBEY
 SAYANI KUNDU
 SAYANI DEBNATH
 SAYANTIKA CHANDRA
 SHUVADIP GHOSH
 SNEHA DAS
 SOUVIK DAS
 TIYASA SAHA
 TRIDIP KUMAR GHOSH



AINDRILA GHOSH
 AKASH CHOWDHURY
 ANANDA BAKULY
 ANASUYA DEV
 ANUSUA MAJUMDER
 ASHIFUR RAHAMAN
 BALRAJ SINGH
 DEBAPRIYA BHOWMICK
 DEBARATI DEY
 HARMANPREET SINGH
 INDRADIP NATH
 LOPAMUDRA HALDER
 NITISH AGARWAL
 PRITHA SARKAR
 PRITI NAG
 RACHAYITA DAS
 RAHUL DHAR
 RESHAM MONDAL
 SAGNIK GHOSH
 SAHIL KHANNA
 SAIKAT ROY
 SAPTARSHI BANERJEE
 SARTHAK DUBEY
 SAYAN DUTTA
 SAYANTIKA CHANDRA
 SHAPATH GHOSH
 SHUVADIP GHOSH
 SNEHA DAS
 SNEHA ROY
 SUBHAM SHARMA
 SUSHOVAN DEY
 SWAPNADEEP DEY

Infosys

ABIR CHOWDHURY
AHARNISHA NANDY
ANUSUA MAJUMDER
ARNAB KUMAR PAL
AYUSH PODDER
BALRAJ SINGH
BIROL ROY
DEBAPRIYA BHOWMICK
EISHITA SHARMA
GAURAB BANERJEE
HARMANPREET SINGH
HARSH JAISWAL
MADHUSHREE DAS
MUSKAN AGARWAL
NEHA YADAV
PRASENJIT SAHA
PRITAM VERMA
PRITHA SARKAR
RAHUL DHAR
RESHAM MONDAL
RICHARD HENRY ROZARIO
RITUPARNA NANDY
RITUSREE GHOSH
ROHAN PAL
SAYAN SAHA
SAYANI DEBNATH
SHRUTI SAHA
SHUVADIP GHOSH
SHUVAM GHOSH
SOUMMAJIT SEN
SOUVICK MONDAL
SOUVIK DAS
SUNETH PATNAIK
SUSHOVAN DEY
TIYASA SAHA
UDDIPAN SENGUPTA
YASH KANORIA

Cognizant

ABHINANDAN DAS
ABIR CHOWDHURY
ANANYA CHOURASIA
ANASUYA DEV
ANIRBAN MUKHERJEE
ANUSRI ADHIKARY
ANUSUA MAJUMDER
ARNAB KUMAR PAL
ASHIFUR RAHAMAN
AYUSH PODDER
BALRAJ SINGH
BIROL ROY
DEBAPRIYA BHOWMICK
EISHITA SHARMA
HARMANPREET SINGH
JOYEETA BOSE
MADHUSHREE DAS
NEHA YADAV
NITISH AGARWAL
PRASENJIT SAHA
RAHUL DHAR
RESHAM MONDAL
RITUPARNA NANDY
ROUNAK CHAKRABORTY
SAIKAT ROY
SAYANTIKA CHANDRA
SHRESTHA KUNDU
SHRUTI SAHA
SHUVADIP GHOSH
SNEHA DAS
SOUVICK MONDAL
SOUVIK LASKAR
SOUVIK DAS
SREYA PODDAR
SUNETH PATNAIK
UDDIPAN SENGUPTA
UJJALA PAL
YASH KANORIA

Hexaware

ABHINANDAN DAS
ABHISHEK JHA
ANASUYA DEV
SOUVIK DAS



THE TECH TREK

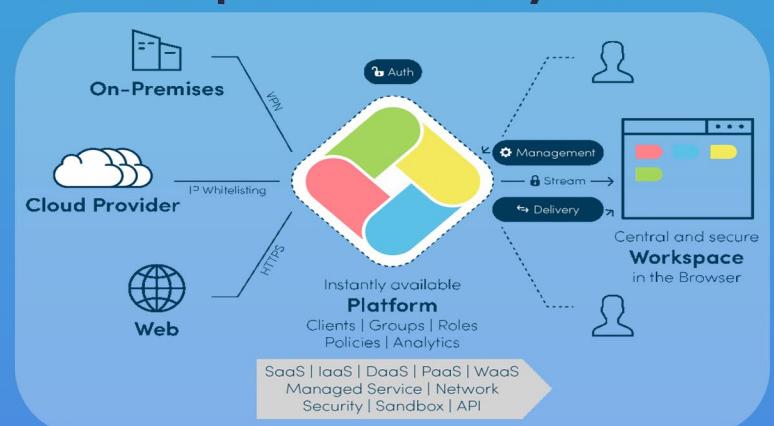
WHEN KNOWLEDGE MEETS INNOVATION

Anything/Everything as a Service

Everything-as-a-Service (XaaS) is a cloud computing term for the extensive variety of services and applications emerging for users to access on-demand over the Internet as opposed to being utilized via on-premises means. It gives you the flexibility to customize your computing environments to craft the experiences desired, all on-demand. The Everything-as-a-Service definition may seem unclear at first sight, but actually, it is not difficult to understand. It all started with the cloud computing terms: SaaS (Software-as-a-Service), PaaS (Platform-as-a-Service) and IaaS (Infrastructure-as-a-Service) meaning that ready-made software, a platform for its development, or a comprehensive computing infrastructure could be provided via networks.

XaaS has expanded to incorporate many services such as:

- Infrastructure-as-a-Service
- Database-as-a-Service
- Function-as-a-Service
- Security-as-a-Service
- IT-as-a-Service



As these applications become even more portable, compute cycles easier to procure in real-time, data integration platforms streamline connectivity, and vendors form cross-platform alliances, that multi-cloud trend might start looking more like an Omni-cloud one soon.

What are the benefits of XaaS?

- Speeding new apps and business processes
- Shifting IT resources to higher-value projects
- Improving the expense model
- Cost- and time-effectiveness
- Focus on core competencies
- Scalability



Examples?

Because XaaS stands for “anything as a service,” the list of examples is endless. Many kinds of IT resources or services are now speaking, delivered this way. Broadly there are three categories of cloud computing models: software as a service (SaaS), platform as a service (PaaS), and infrastructure as a service (IaaS). Outside these categories, there are other examples such as disaster recovery as a service (DRaaS), communications as a service (CaaS), network as a service (NaaS), database as a service (DBaaS), storage as a service (STaaS), desktop as a service (DaaS), and monitoring as a service (MaaS). Other emerging industry examples include marketing as a service and healthcare as a service.

The rise of XaaS has been phenomenal in the last decade with the arrival of:

- SaaS providers such as Microsoft Office 365, Google Apps, and Salesforce.
- PaaS vendors for application development and testing such as Amazon Web Services (AWS), Apache Stratos, and Google App Engine.
- IaaS solutions for deployment, configuration, and remote management of virtual machines such as Google Compute Engine, Microsoft Azure, and AWS Elastic Compute Cloud.
- XaaS also encompasses solutions such as storage as a service and database as a service.

Raja Mishra
3rd Year, BCA

NOW GOOGLE CAN SENSE AND TRACK YOUR SLEEP!!



Google's next internet-connected home device will test whether consumers trust the company enough to let it snoop on their sleep. New sleep-sensing technology will be a key feature on Google's latest version of its Nest Hub, a 7-inch smart screen unveiled Tuesday. Like the previous generation, the \$100 Nest Hub can display pictures and video in addition to fielding questions and handling household tasks through Google's voice-activated assistant. It also doesn't feature a camera. But the latest Nest Hub's new trick may help differentiate it from similar devices, such as Amazon's Echo Show, while also providing a springboard for Google to get more involved in helping people manage their health. The Nest Hub is supposed to generate weekly sleep reports with easy to understand breakdowns on the length and quality of sleep, how frequently the user gets up at night and snoring and coughing frequency, along with tips developed in consultation with the American Academy of Sleep Medicine. Google says it honed the technology by studying 15,000 sleeping people over a combined 110,000 nights. That kind of help may sound appealing to the millions of people who have trouble sleeping. But the feature may also raise privacy concerns especially given Google's long history of online surveillance to collect personal details such as interests, habits and whereabouts to help sell the digital ads that generate most of its revenue.

It also underscores Google's obvious intent to extend its tentacles into new areas of people's lives in its relentless quest to make more money, said Jeff Chester, executive director of the Center for Digital Democracy, a consumer and privacy rights group.

"Google's goal is to monetize every cell of your body," Chester said.

If you allow it, the device will also monitor your sleeping patterns from your bedside, negating the need to wear a fitness device or any other potentially bothersome gadget in bed. The feature, which Google intends to offer for free through at least this year, relies on a new chip Google calls Soli, which uses radar to detect motion, including the depth of a person's breathing. The sleep sensing feature will remain free through the rest of this year, but Google could eventually sell it as a subscription service acknowledged Ashton Udall, Google Nest's senior product manager. The company may also eventually tweak the feature to work with its FitBit line of fitness devices, which Google took over in January. That \$2.1 billion purchase has raised concerns that Google could use those gadgets to peer more deeply into people's personal health. Google is emphasizing the privacy protections built into the sleep sensing feature. For starters, users will have to turn it on themselves. The Nest Hub will also have controls that Google says will make it clear when sleep tracking is on and to make it easy to delete data from the device. All audio will be kept on the device, meaning it won't be sent to Google's data centers, although other sleep information will be provided to generate the analysis and reports. None of the information collected through the sleep sensing feature will be used to sell ads, Udall said. But Chester is skeptical about that pledge. Knowing an individual's sleeping patterns, for instance, could help Google know when a person is feeling anxious or sick, Chester said, and those insights could influence which ads to show.

Dipannwita Chowdhury, BCA 2nd Year



WILL FLUTTER REPLACE THE NATIVE APP DEVELOPMENT?



Today's app development market has changed phenomenally with the addition of many powerful cross-platform app development frameworks. One such forthcoming is Google's Mobile UI framework named 'Flutter'. Flutter is an open source mobile app development framework which is mainly used for developing cross platform mobile apps for iOS and Android devices. Flutter has built a lot of hype in the world of mobile app development. For someone who is looking forward to start their career in Android App Development, there is a huge dilemma regarding which language to choose for development. There are many options such as Java, Kotlin, C#, C++, Dart (Flutter) and many more. Java is most popular among them and has been widely used for Android App Development.

But after Google has launched Flutter, which can build cross-platform apps too, many developers are shifting from Java to Flutter. Flutter has been around for a long time, but it has started getting more attention since Google I/O 2018 when Google announced release preview of Flutter. At Flutter Live on 4th December 2018, Google announced the first stable version of Flutter with loads of new features. Some big companies like Alibaba are already using it for developing mobile apps.

It is very much in discussion that Flutter might replace Java for Android app development. There are certain reasons for which it is becoming more and more popular as compared to Java.

LET'S COMPARE FLUTTER WITH NATIVE ANDROID DEVELOPMENT USING SOME BASIC CRITERIA

◀◀◀ PROS

- Getting started with Flutter is way too easy and the documentation is really good. Creating your first application with Flutter is easier than with Android and iOS. It was way too easy and really boosted my confidence.
- Although Flutter and Android are being developed at Google, the technical architecture of both platforms is completely different. Flutter uses Dart as the programming language, while native Android development uses Java or Kotlin.
- Flutter uses Ahead of Time (AOT) Compilation that natively compiles the Dart code to machine code. This helps in saving disk space, memory, battery life, and startup times.
- Flutter does not use a Javascript bridge for communication between mobile and the application. This means less context switching. The application is natively compiled and thus reduces the communication time. All the other frameworks use a Javascript bridge.
- In terms of IDE, Android Studio can be used for both Flutter and native Android app development. However, Flutter apps can also be developed in lightweight editors, like Sublime Text, Atom or VIM, or in an IDE like IntelliJ Idea.
- While developing apps natively, Android engineers need to use Android Studio and the native build and platform tools provided by Android Studio. Android Studio has all the SDK tools embedded within the IDE. These tools also need the emulators or Android Virtual devices to run the apps. Every time developers make changes to the app, they have to rebuild the app or third-party dependencies in some cases to see the changes in the emulator or on devices. As a native Android developer, you might have experienced this slow process as Gradle builds can take time.

In Flutter, there is the hot reload option. When a developer makes any changes, the changes appear in the emulator or devices instantly. However, as the app grows in size, developers need to adopt new techniques to use this feature effectively.



WILL FLUTTER REPLACE THE
NATIVE APP DEVELOPMENT ?



CONS

Flutter is still in beta testing, it means it is not stable, but definitely it can be stable in future. Flutter is full of feature sets, but it's definitely not perfect yet. There are some important features lacking in Flutter, like OpenGL, Maps, Video support and Accessibility support. Flutter also lacks some packages required for development. There is no support for editing the layout like with interface builder. There might be some other features missing as well. In comparison with the number of native developers, Flutter community is rather small.

Java is an old language and Google has been trying to find a replacement for Java since the Sun/Java acquisition by Oracle. And in the process, they found Flutter. Though I said Flutter would replace Java for Android Development, I didn't say it will replace Native Application Development for Android.

Kotlin is here to stay and it will be a really tough competition for both.

As an Android developer, you shouldn't ignore Flutter. We can't predict the future, but who knows, Flutter might just as well be the first choice for businesses to develop Android apps. There are some potential reasons for that.

I will be really brutal and be done with it.

A native application is always better than a Hybrid application in terms of performance and speed. But.

But there are trade-offs with both.

If native gives speed, Flutter reduces time to market and reduces code. It will always depend upon the use-case you are after. If you're a startup, I'd say go with Flutter that delivers performance and speed in no time. And make your customers happy. But if you're multi-million company and has time, money and human resource to spend, go with Native. Again, it depends upon the use-case and resources.

SHRESHTHA MUKHERJEE
3RD YEAR, BCA

5G Technology

Welcome, now we are going to have a view on the latest trending 5G technology that has come now all over the world gradually. First of all, let us start with –

Now we all know about 1G, 2G, 3G and 4G where G is referred to as Generation and that former number tells about its steps of evolving or time of mobile network. So, 5G is the new 5th Generation New Wireless Mobile Network. It is designed to connect everyone and everything like many machines, devices and objects to connect virtually. 5G technology which is completely wireless has the capability to deliver higher multi-GBPS peak data speeds, ultra-low latency, more reliability, massive network capacity, increased availability, and a more uniform user experience to more users.

Interesting fact is that no single person or no single company alone has invented 5G, rather it is Qualcomm who has played a major role in inventing the many foundational technologies that drive the industry forward and make up 5G, the next wireless standard. Now, can we make a comparison between the previous Generations with the latest one i.e. 5G? So, Let us see →First generation - 1G, 1980s: 1G delivered analog voice. Second generation - 2G Early 1990s: 2G introduced digital voice, e.g. – CDMA Third generation - 3G Early 2000s: 3G brought mobile data, e.g. CDMA2000. Fourth generation - 4G LTE2010s: 4G LTE ushered in the era of mobile broadband.



1G, 2G, 3G, and 4G all led to 5G, which is designed to provide more connectivity than was ever available before. 5G is a unified, more capable air interface. It has been designed with an extended capacity to enable next-generation user experiences, empower new deployment models and deliver new services. And the important fact is – with such high speeds, superior reliability and negligible latency, 5G will expand the mobile ecosystem into new realms. 5G will impact every industry, making safer transportation, remote healthcare, precision agriculture, digitized logistics – and more – a reality.

5G is driving global growth.

- \$13.1 Trillion dollars of global economic output.
- \$22.8 Million new jobs created.
- \$265B global 5G CAPEX and R&D annually over the next 15 years.

Finally, we will talk about the most important use Of 5G Technology -Enhanced mobile broadband, Mission-critical communications & Massive IoT.

So, in our country India also gradually 5G technology is coming as already some big tech companies of smartphone has launched their mobiles with this latest 5G technology.

Souhardya Deb Majumder
2nd Year, BCA



SPRING BOOT AND ITS APPLICATION

Spring Boot is an open-source Java-based framework used to create a micro Service. Spring comes with multiple features that make the developer's life easy. The feature includes an embedded web server, auto-configure development environment, data persistence, and binding, annotations classes, dependency injection, aspect-oriented programming, easy security implementation.

Spring Boot provides a good platform for Java developers to develop a stand alone and production-grade spring application that you can just run. You can get started with minimum configurations without the need for an entire Spring configuration setup.

ADVANTAGES

Spring Boot offers the following advantages to its developers –

- Easy to understand and develop spring applications.
- Increases productivity.
- Reduces the development time.



GOALS

Spring Boot is designed with the following goals –

- To avoid complex XML configuration in Spring.
- To develop a production ready Spring applications in an easier way.
- To reduce the development time and run the application independently.

Spring Boot automatically configures your application based on the dependencies you have added to the project by using @EnableAutoConfiguration annotation. For example, if MySQL database is on your class path, but you have not configured any database connection, then Spring Boot auto-configures an in-memory database. The entry point of the spring boot application is the class contains @SpringBootApplication annotation and the main method.

SPRING BOOT STARTERS DEPENDENCIES

Handling dependency management is a difficult task for big projects. Spring Boot resolves this problem by providing a set of dependencies like-Spring Boot Starter Actuator dependency is used to monitor and manage your application, Spring Boot Starter Security dependency is used for Spring Security, Spring Boot Starter web dependency is used to write a Rest Endpoints, Spring Boot Starter Thyme Leaf dependency is used to create a web application, Spring Boot Starter Test dependency is used for writing Test cases.

SPRING BOOT APPLICATION

We can create many real life applications using spring boot. We can create CRUD application using hibernate, thymleaf, jpa and web annotation tools, in this application we can create new product and also update and delete possible, for product database management system we can use this type of application. Me and my other four friends also developing a banking project using spring boot, there we have two account one is user and another one is admin, there admin can sign up and after sign in they can add users, update their documents, deposit, withdraw and transfer their money and a user can also login and check their balance and can transfer their money.

Souvick Mondal
Alumni(2021)





Content Writing

When Creativity meets imagination

SEVERED FINGER

Many years ago, when I was a young man, I worked as a policeman in a little town in Spain. There was rarely any crime in the area and, most of the time, there was precious little for me to do. There was a small villa on the outskirts of town that was sometimes rented out for the summer. One summer, a stranger moved into the villa. Nobody knew who he was or where he came from.

He was a peculiar sort of person and the neighbours didn't know what to make of him. He never spoke to anyone and never went into town. The only time he left his house was when he went hunting or fishing. Soon, rumours began to spread about him. Some people thought he was a pirate who was on the run from the law. Others thought he was a murderer who was in hiding after committing some abominable crime.

It was my job to pay a visit to this strange man and find out exactly who he was. So, bright and early one morning, I knocked on his door and introduced myself.

He was a tall man, with broad shoulders and he had red hair and a beard. He showed me his papers which confirmed that his name was Sir Adam Cooper. He was an English man who had served in the British army. He said he was retired now and had come to our little town to take advantage of the hunting and fishing in our forests and lakes.

He invited me to come inside for a drink and I asked him a few questions about his life. He told

me about his years in the army and said that he had many adventures during the war in Africa.

Then I turned the conversation to hunting, and he told me about all of the animals he had killed. Lions, tigers, elephants, a hippopotamus and even a gorilla.

"These animals are quite dangerous, aren't they?" I said.

"They are," he smiled. "But the most dangerous animal of all is man..." With that, he slapped me on the back and let out a loud guffaw.

"You haven't really hunted... men... have you?" I asked nervously.

"I certainly did," he said with a grin. "During the war in Africa. And I have a trophy if you care to see it."

He led me into the living room. The windows were covered by long black curtains and the walls were covered with animal heads, mounted and stuffed. Above the fireplace, I saw something that filled me with disgust and horror. It was a severed hand... a human hand... a dried and withered black hand with yellow fingernails. It had been chopped off at the wrist. The hand was hanging on the wall from a chain that was fastened around the wrist like a handcuff.

"That's my best enemy," said the English man. "It

comes from Africa. I hunted him for days and when I finally killed him, I hacked off his hand with an axe and left it to dry in the sun for a week." I was speechless. I couldn't take my eyes off the hand. It was terribly disturbing to see the hand of a human being displayed on the wall like a trophy.

"I keep it on a chain to stop it running away," Sir Adam Cooper chuckled.

I glanced at him, wondering for a moment if he was serious, but he flashed me a mischievous smile. I couldn't bear to spend any more time with the English man, so I said my goodbyes and left. I was disgusted by him, but what he had done was not illegal at the time, so there were no charges I could bring against him.

I gradually put the man and his grotesque trophy out of my mind, but one morning, a few months later, I got the news that Sir Adam Cooper had been murdered during the night. I rushed to his house and when I went inside, I saw the body of the English man lying on the floor in the living room. He was lying on his back and his clothes were ripped and torn. It was clear there had been a violent struggle.

His whole head was swollen and black, and there was an expression of intense fear on his face. His

neck had been crushed and there were five red marks, as if he had been strangled by a powerful hand. A cold chill ran down my back and I looked up at the spot above the fireplace. The terrible hand was gone and the chain was hanging loose. That's when I noticed something strange about the dead man's mouth. When I pried his teeth apart, I was shocked to discover something inside. It was a severed finger, bitten off at the knuckle.

The murderer was never found and the crime remains unsolved to this day. The only evidence we had of the murderer's identity was that severed finger. Because he had no family or friends, Sir Adam Cooper was buried in the town cemetery.

One night, about three months later, I had a terrible nightmare. I dreamed that I saw the horrible hand running over my curtains and walls like an enormous spider. Three times I woke up and three times I went to sleep again and three times I saw that hideous thing galloping around my room and moving its fingers like legs.

The next morning, someone found the missing hand in the cemetery. It was lying on the grave of Sir Adam Cooper. When I arrived to examine it, I already knew what I would find. One of the fingers was missing.

SAYAN BHOWMICK
3RD YEAR, BCA



ଆର୍ଶିଧା

ଚାରିଦିକେ ହାହାକାର ମୃତ୍ୟୁ ମିଛିଲ
ତାରିମାଝେ ହାସିଥୁଣି ଚନମନେ ଆର୍ଶିଧା,



ଭାନୋଲାଗେ ମେଯେଟିକେ
ଅଚେଳା ଅପରିଚିତେର ମାଝେ-
ପରମ ଆତ୍ମୀୟ ଘେନୋ ସେ କବେକାର ,
ଏକଦିନ ମାଝ ରାତେ ଘୁମ ଭେଣେ ଦେଖି -
କୋମଳ ଶପର୍, ଭ୍ରକ୍ଷାତ୍ କ୍ଷତ୍ରେ
ବନମନେ ଆର୍ଶିଧା ।

"ବ୍ୟାଥା ଆର ଆଛେ ନାକି ? ବିଶ୍ଵାମ ଦାଓ ଦେଖି!"
ମିଳିତାଯି ଭବା କରେ ଛୁଁୟେ ଘାୟ ଆନାଚେ କାନାଚେ ।

ମହୀୟା ମନେର ବାଁକେ କୌତୁଳନ ଜେଗେ ଓଠେ
ଆର୍ଶିଧା,, ଆର୍ଶିଧା ! ହିଲ୍ଦୁ ନା ମୁସନିମ ?
ମା - ତୋ ଶୁଦ୍ଧ ମା-ଇ ହୟ, ତାରଓ କି ଜାତ ଧର୍ମ ରହ ?
ତବେ କେନୋ ଏତ ଉଦ୍‌ଦ୍ଦିନ ? କେନୋ ମହୀୟା ଭୟ ?
କୁଞ୍ଜନେ କରେଛେ ବିଭେଦ, ତବେ ମା କେନୋ ସୟ ?!

ବାରେ ବାରେ ଉଠେ ଆସେ ବିଭେଦେର ଡାକ-
ଆର୍ଶିଧା ଅର୍ଥାତ୍ ଉଦ୍‌ଦ୍ଦିନର ପ୍ରତିନିଧି,
ଜାତି-ଧର୍ମ ମବ ନିପାତ ଘାକ ॥

- ଦୈଵାଞ୍ଜନା ତେଓଧାରୀ
2nd Year, BCA



How's your quarantine?

Hey buddy,
How's your quarantine?
No birthday celebrations,
No more Valentine!
No more hanging out,
No more dates.
Everyone should be blamed,
And not our fates.

Hey buddy,
How's your quarantine?
No cigarettes available,
No more having wine!
No more going to the club,
No more entry to the bar.
All are Resting in peace,
Yet we are in a state of war.

Earth is healing herself,
Pleasure is all mine.
Yet few illiterates are gathering out,
Thinking they are perfectly fine.
Poor me, calling up my friends,
Asking them six to nine,
"Hey buddy
How's your quarantine?"

-Avishek Sharma
2nd Year, BCA

স্বর্গ

"স্বর্গ কল্পিত, লোকমুখে প্রচলিত,
মুখের এক অলীক মাপকাঠি ----

স্বর্গ সুন্দর, শান্তির আঁখর,
পৃণ্যবান আত্মাদের ঘাঁটি ।

দেবতারা বিরাজ করে,
আত্মাদের বিচার করে,

জীবিত কালের পাপপূণ্যকে করে মাপকাঠি ।
কোনটা পাপ, কোনটা পূণ্য,
ব্যখ্যা আছে তার বিচিত্রি ----

কেউ বলে মন্দিরে যাও,
কেউ বলে করো উপবাস,
কেউ আবার বলে,
দেবতারা পায়ে নিজেকে সঁপে দাও ।

তবে আমার কাছে পূণ্য- স্বর্গের
ব্যখ্যা একটু অন্য ।

রাস্তার পাশে থাকা অভুত্ত হেলে,
খিলখিলিয়ে হেসে ওঠে
দুঃখুঠো ভাত পেলে,

কারো মুখে হাসি ফুটানো
আমার কাছে পূণ্য,

দিনে দুঃখুঠো ভাত জুটানো,
তার কাছে স্বর্গ ।



पर हमें तो आसमान छुना था

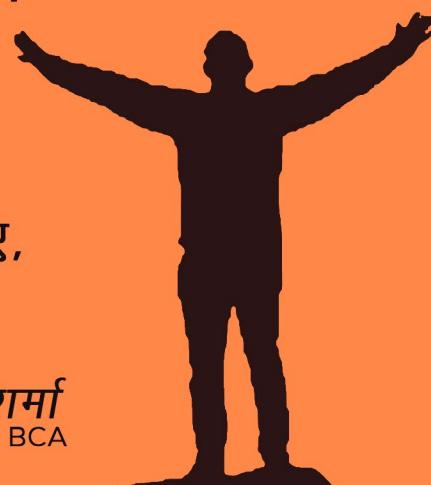
कमर झुकी, किस्मत फूटी,
 दुसरो के किताबो ने इतना सिखाया ।
 माँ—बाप के सपनों को सच करते—करते,
 खुद की डाइरी किसी को न दिखाया ।

6—दीजीट ईनकॉम वाली पट्टी है,
 सबको गले मे पेहेन्नी थी ।
 रख कर इतना वजन कांधे पर,
 नकली हर्सी ही हसनी थी ।

चार दीवारो में हमे रोख कर,
 उड़ने का ज्ञान दिया जाता था ।
 तरिके से सभी ने मारा रट्टा,
 रटने तक ही दीमाग रुक जाता था ।

दौरना था बिना रुके—बिना टूटे,
 पर हमे उड़ना मना था ।
 दौरते – दौरते जमीन मे ही दब गए,
 पर हमें तो आसमान छुना था ॥

— अभिषेक शर्मा
2nd Year, BCA





"মা", এই দুই অক্ষরের ছোটি শব্দটির ভূমিকা আমাদের জীবনে আপরিসীম। "মা" হলেন এমন একজন ব্যক্তি যাকে একটি বা দুটি শব্দে বর্ণনা করা প্রায় অসম্ভব বলনেই চলে। ভগবানের সবচেয়ে সবচেয়ে সুল্দৱ স্মৃতি হলেন "মা", যে মানুষটি সমস্ত যন্ত্রণা সহ্য করে আমাদের প্রথম পৃথিবীর আনন্দ দেখায়। একজন নারী প্রথমে মেয়ে এবং তারপর একজন সহধর্মীণী এবং পরে একজন "মা" হওয়ার মধ্যে দিয়ে তার পুর্ণতা পান। "মা" হলেন এমন একজন ব্যক্তি যিনি তার সন্তান এবং তার পরিবারকে আগনে রাখেন বটিগাছের ছায়ার মতন। সমস্ত কষ্ট উপেক্ষা করে দিনের শেষে ঠোঁটের কোনায় এক চিনতে হাসি নিয়ে যে মানুষটি বলে ওঠেন "আমি ভানো আছিরে", তিনি হলেন "মা"। সমস্ত ঘর জাপটি সহ্য করে নিজেকে ভুলে পুরো পরিবারের মুখে হাসি ফোঁটাতে যে মানুষটি দিন যাত্রি ক্রমাগত পরিশ্রম করে চলেছেন, তিনি হলেন "মা"। একজন "মা" হওয়া একটি নারীর জীবনে সবচেয়ে বড়ো সুখ। একজন সন্তানের জীবনে তার "মা" একজন বড়ো শিক্ষকের ভূমিকা পালন করে থাকেন, যার হাত ধরে ছোটি শিশুটি তার জীবনের প্রথম শিক্ষান্তর করে। আমরা সবাই তার আদশেই আদর্শিত হই...এই মানুষটি যেমন ঘরের কাজে পারদর্শী ঠিক তেমনি বাহিরের কাজ করতে সক্ষম। মাকে আমরা প্রত্যেকদিন বিভিন্ন রূপে দেখতে পাই, কখনো তিনি "দুর্গা রূপে" বাড়ির সমস্ত কাজ একাহাতে সামনান আবার, তিনি "চগী রূপে" সমস্ত দুর্ঘু শক্তির বিরুদ্ধে রুখে দাঁড়ান, যেই তিনি কখনো আবার সেক্টির ফাইভে কর্মরত একজন মহিলা হয়ে আমাদের চোখের সামনে ধরা দেয়, তিনি আবার কখনো একজন স্কুল কলেজের শিক্ষিকা হয়ে আমাদের শিক্ষাদান করেন। তার রূপ অনেক কিন্তু ভূমিকা এক। আমার কাছে নিঃস্বার্থ ভানোবাসার অপর নাম হল "মা", আমার অসুস্থতার ওষুধ হলেন আমার "মা", আমার ব্যর্থতায় আমার পিঠে হাত রেখে ভরসা যোগানো মানুষটি হলেন "আমার মা", আমার অনুপ্রেরণা। তাই সবশেষে এটিই বলতে ইচ্ছা করে-

॥ "মাগো তোমার ভাকে দেবো সারা

তাহিতো আমি জাগি

মাগো আমি জানি তুমি তত্ত্ব হারা

জাগো আমার নাগি

তাহিতো আমিহি জাগি" ॥

দেবারতী দে
Alumni

Enthusiasm

Life is not a bed of roses. One has to face many hardships and difficulties in life to achieve the desired goals. For this one has to be very responsible , hardworking and most of all very enthusiastic in all sorts of work undertaken.

Enthusiasm, according to Oxford Dictionary , mean's "great enjoyment or interest" . Enthusiasm can also be described as inquisitive spirit or spirit to know. Enthusiasm leads us to the path of knowledge which help us to find a sail boat in the ocean of wonders.

Lack of enthusiasm is a modern malaise. This theme is touched upon by John Osborne in his play "Look Back in Anger" written in last 50s of the last century.

The seed of enthusiasm is sown in ones mind during the student life. Unless and until a student is enthusiasm about a particular subject, he/she will not be able to grow interest in it and in turn, he/she will not able to get the essence of the subject. Thus enthusiasm and learning are inter dependent.

Man travels from the land to sky, form sea to ocean and even beyond to quench his thirst to know the unknown and see the unseen . It is only enthusiasm that has helped mans in his victorious journey of life.

Age , sex , caste , creed are no bars in the way of mans hunger for knowledge. We can derive a very clear evidence from the life of Kalpana Chowla, who besides being very enthusiastic was also a workaholic. It was this hunger that prompted Ulysses to undertake further voyage in spite of his old age.

-----"How dull it is to pause , to make an end . To rust unburnished , not to shine in use!" Ulysses , (written by Lord Alfred Tennyson) , the king of Ithaca also said-----"I cannot rest from travel : I will drink life to the lees"

Rabindranath Tagore , Yeats , Tennyson had all won the battle of life having enthusiasm in their mind and heart as a sword.

Enthusiasm is a sine qua non (Latin word meaning indispensable) in the world of science and technology. The basis of modern national development is entirely dependent on enthusiasm and hard work.

Thus we can conclude by saying , one who has enthusiasm as a companion in the journey of life , succeeds in overcoming all difficulties of life and can reach the pinnacle of success. Hence, one can really turn life into a bed of roses.



PAINTINGS

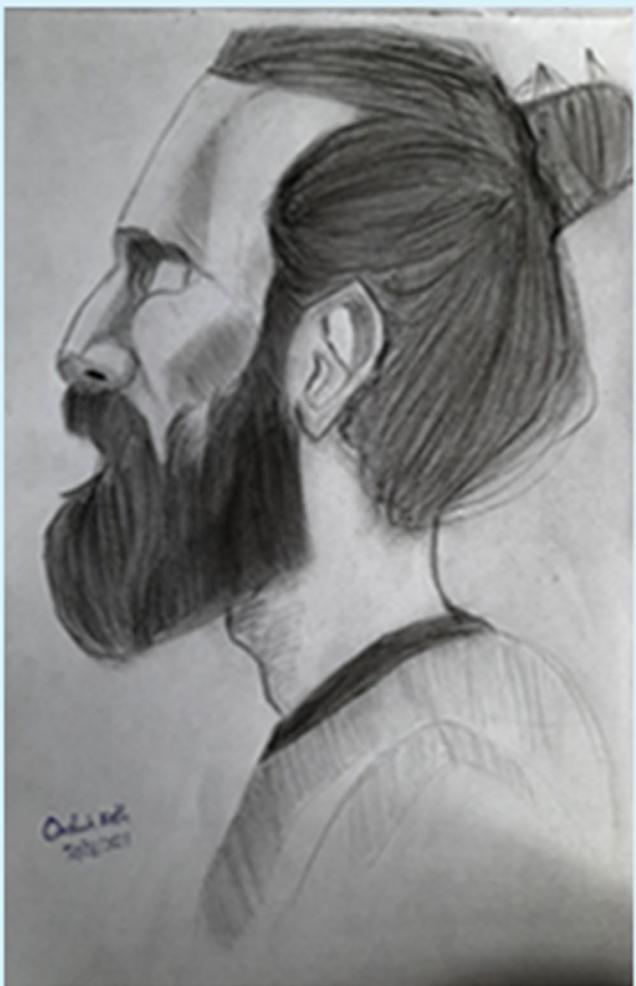
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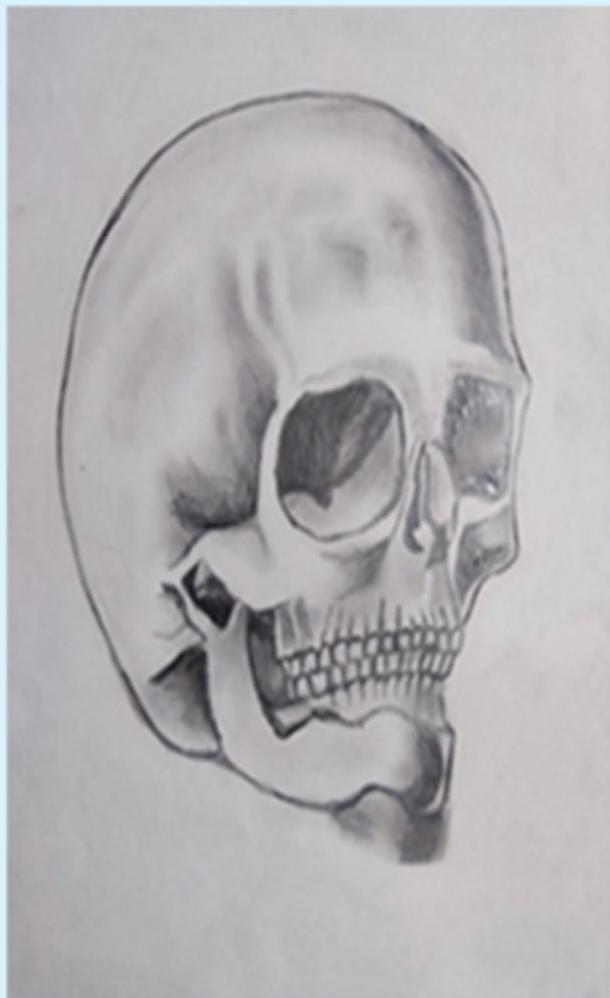
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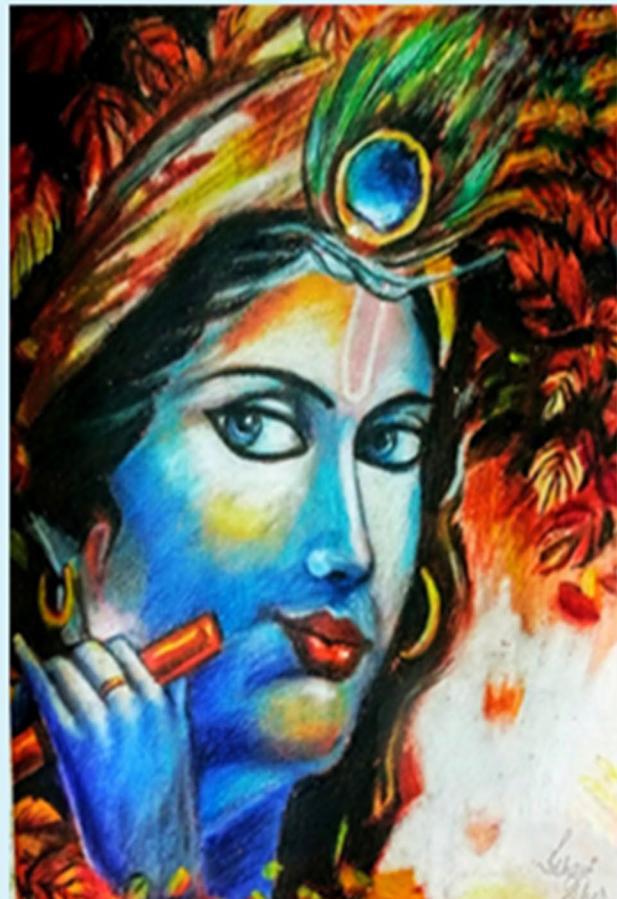
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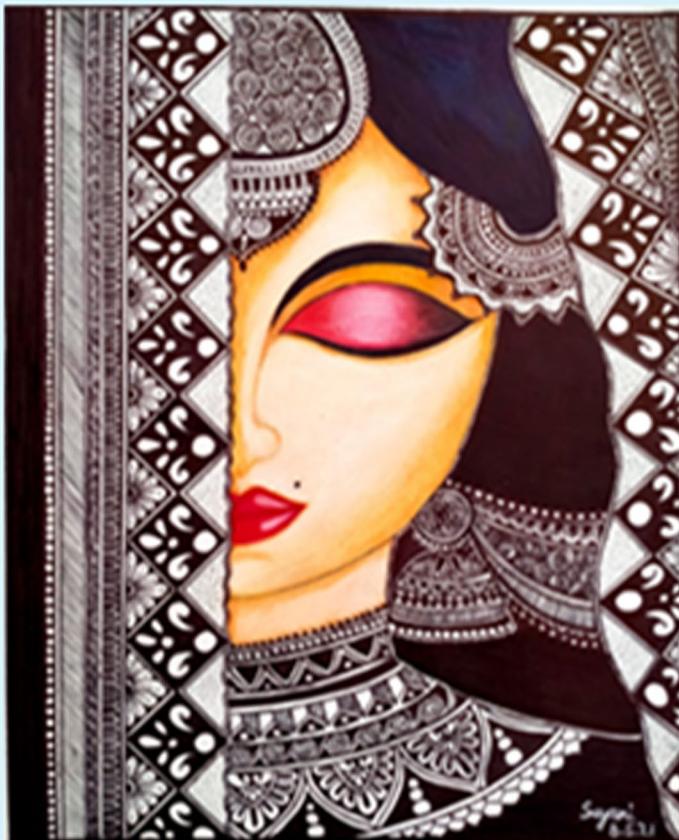
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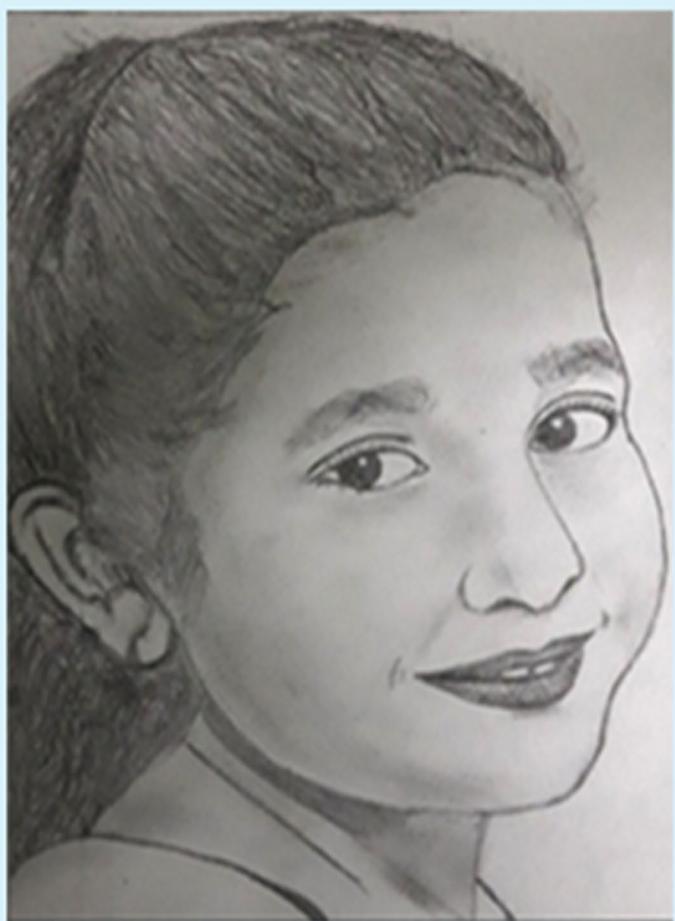
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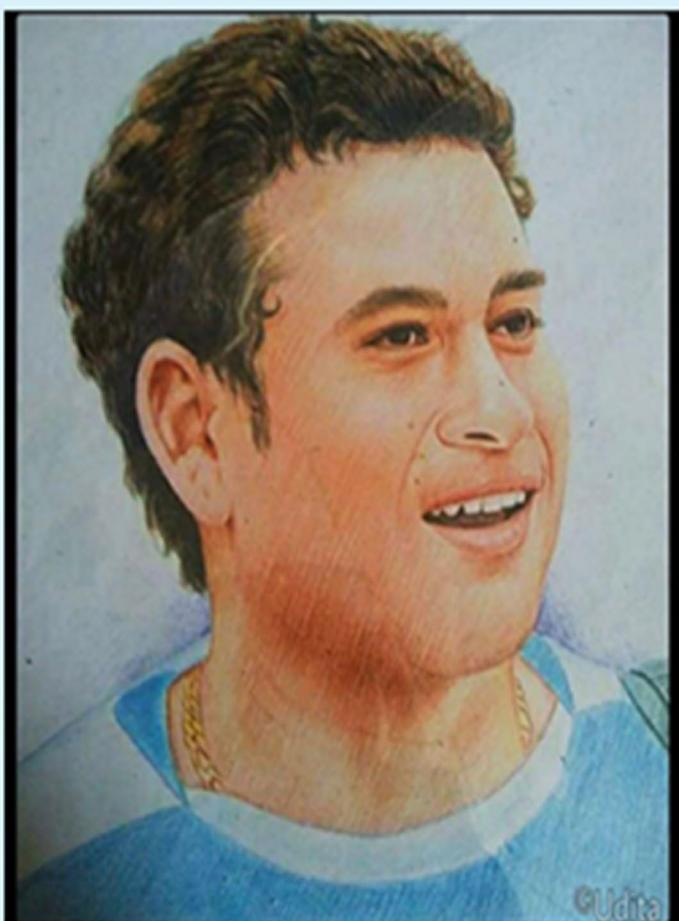
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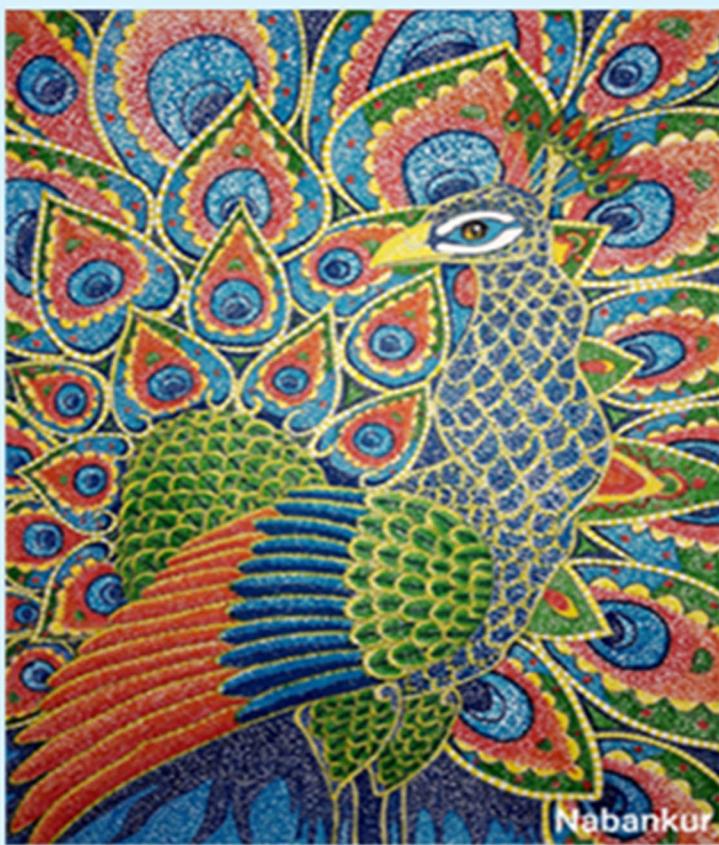
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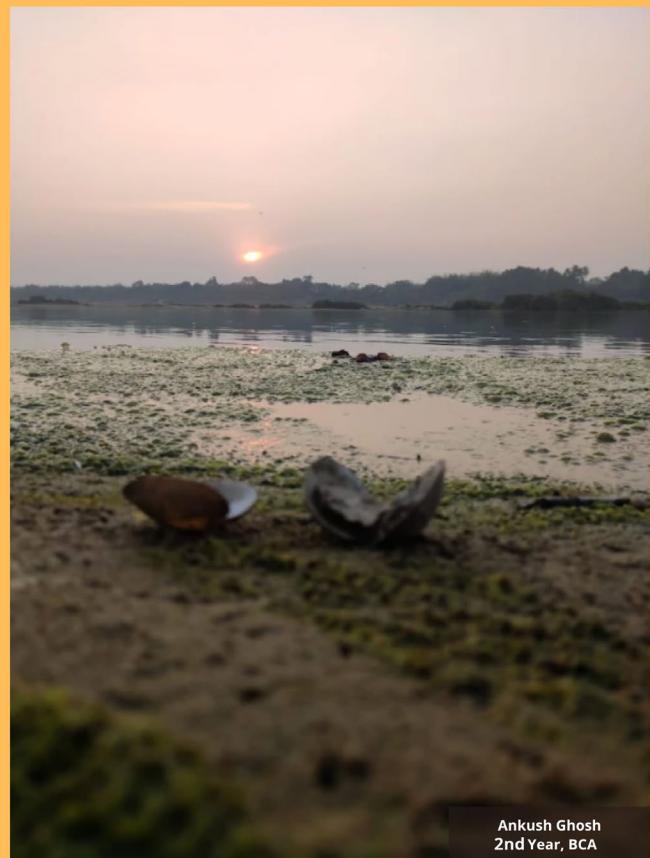
Photography is a love affair with life

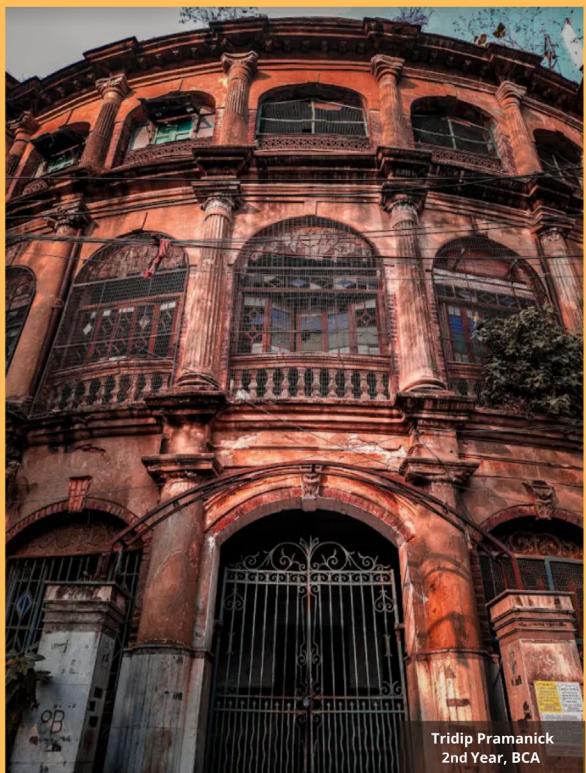
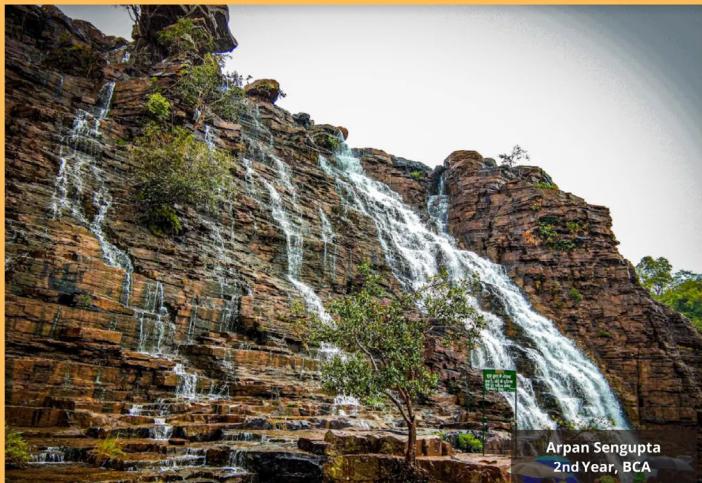


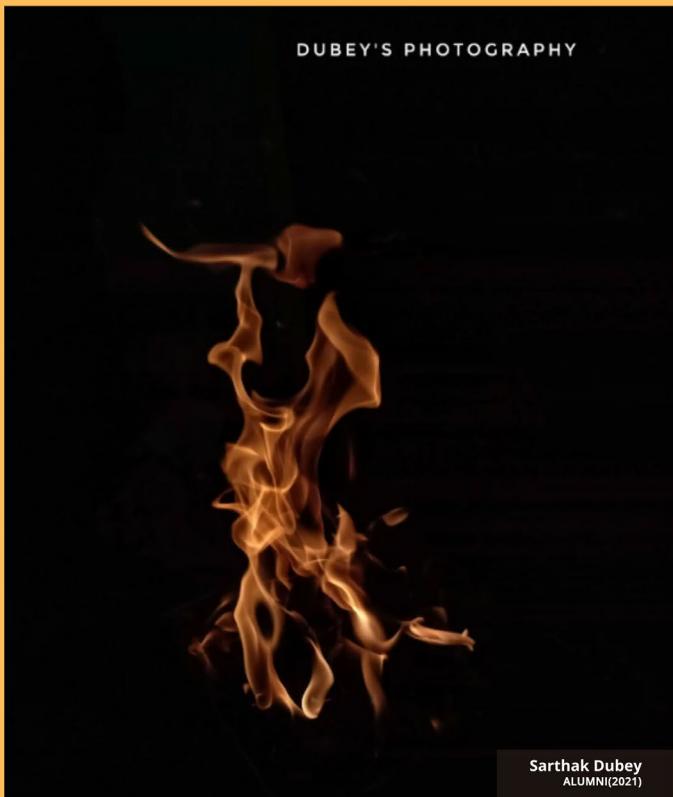




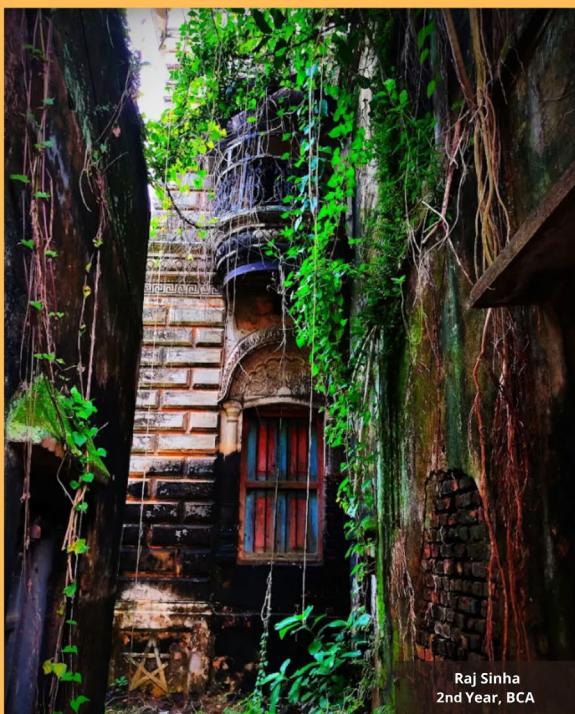


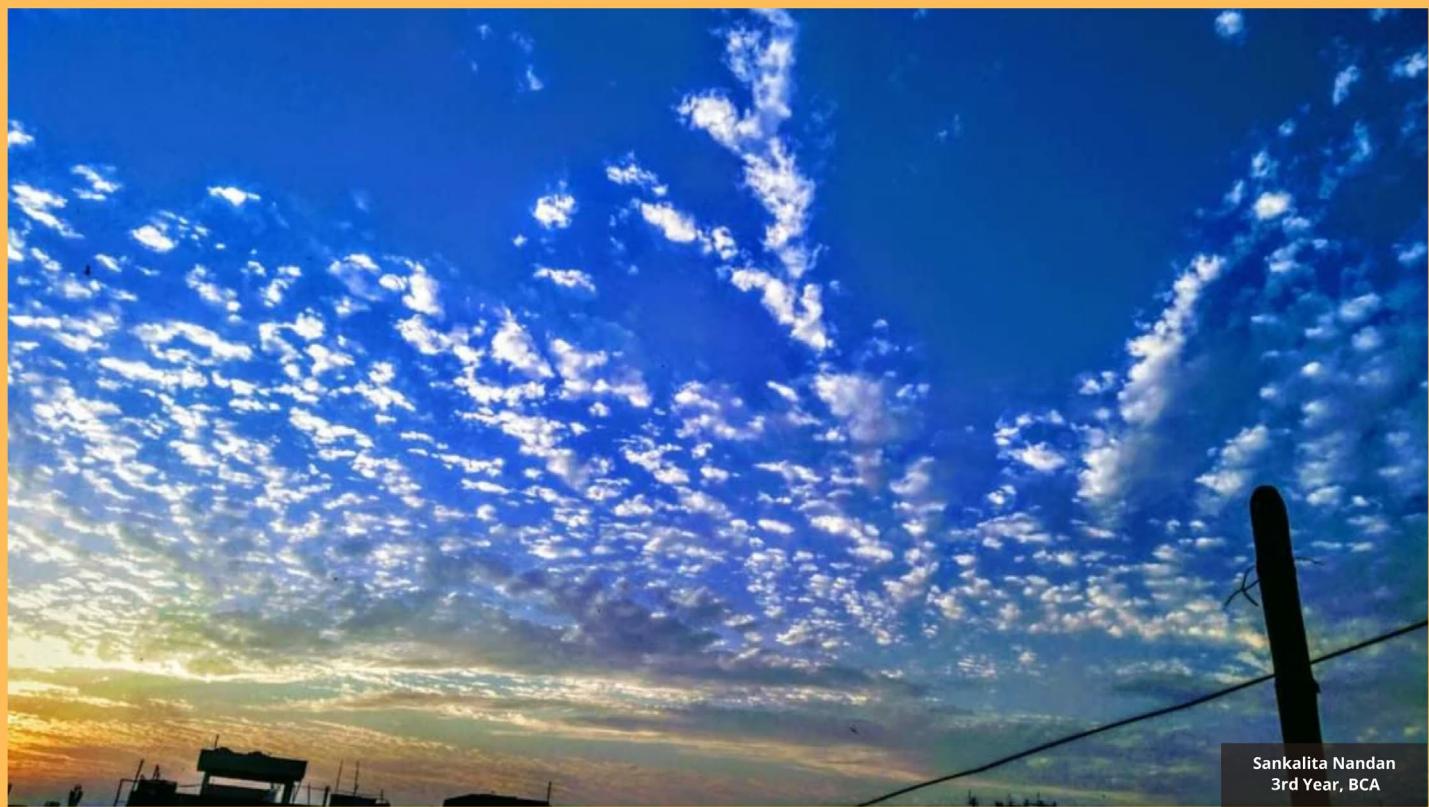
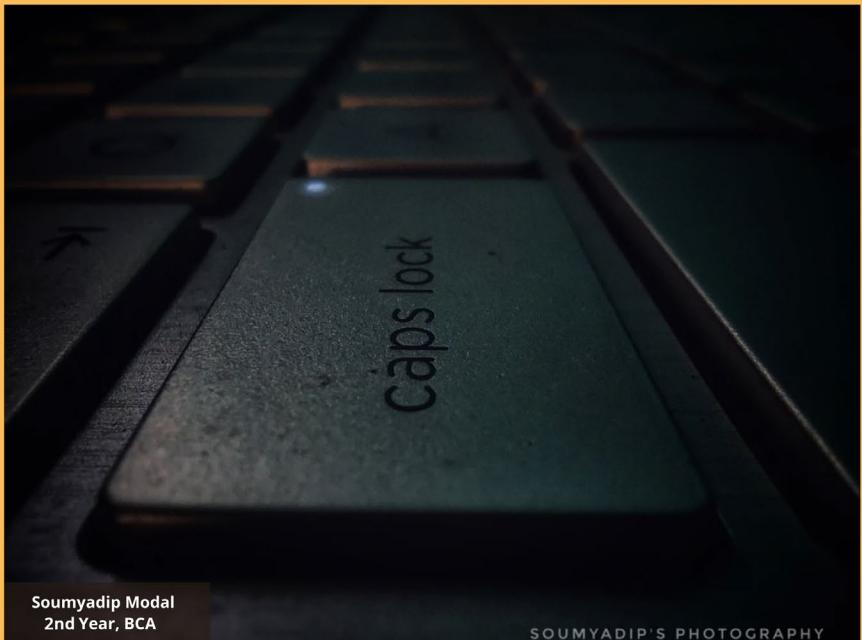
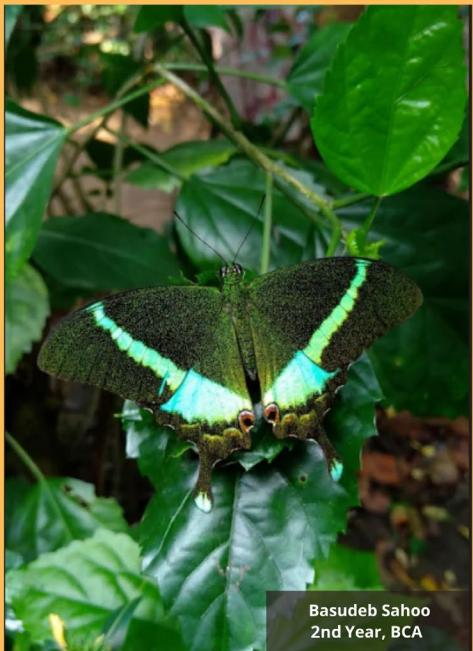


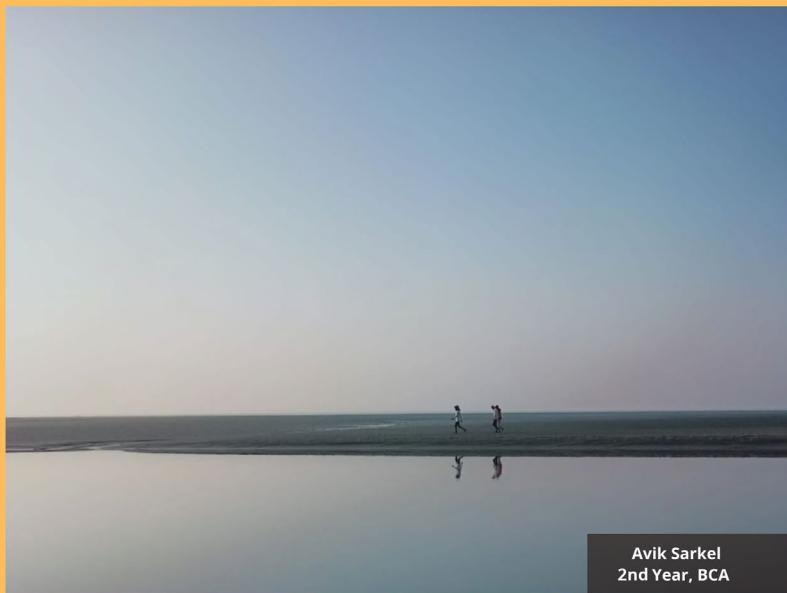




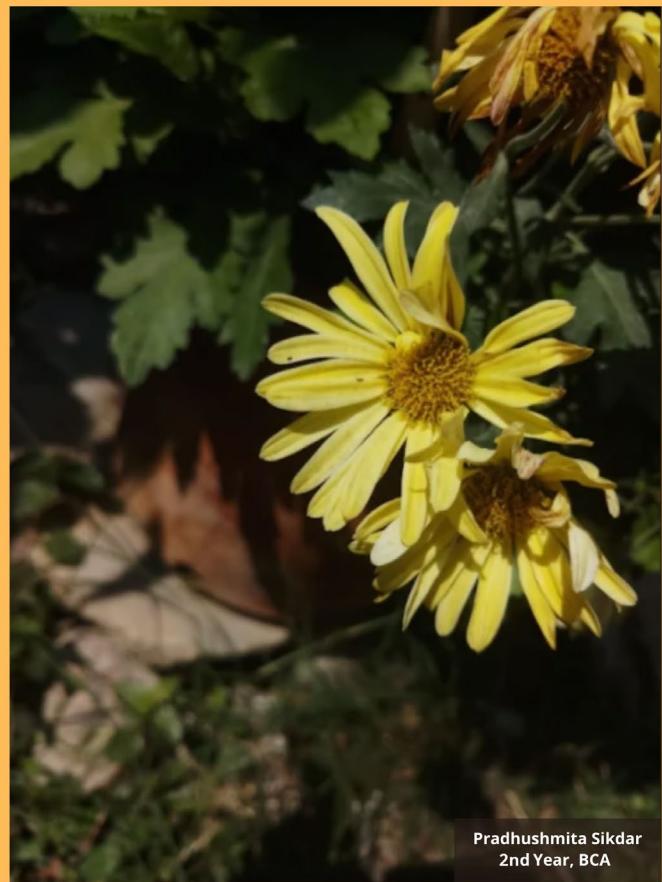








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- APJ ABDUL KALAM

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