# ITanium

*Department of Information Technology*

## Special Edition: Evolutionary Computation

**IMS ENGINEERING COLLEGE, GHAZIABAD**

Approved by AICTE, Delhi and Affiliated to Dr A P J Abdul Kalam Technical University, Lucknow

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# VISION & MISSION

# IMS ENGINEERING COLLEGE

## VISION

Our vision is to impart vibrant, innovative and global education and to make IMS the world leader in terms of excellence of education, research and to serve the nation in the 21st century.

## MISSION

▪To develop IMSEC as a center of Excellence in Technical and Management education.

▪To inculcate in its students the qualities of Leadership, Professionalism, Executive competence and corporate understanding.

▪To imbibe and enhance Human Values, Ethics and Morals in our students.

▪To transform students into Globally Competitive professionals.

# Department Of Information Technology

## VISION

To impart futuristic technical educational and establish a department of excellence by preparing students to apply their knowledge and varied skills as a competent technocrat to contribute towards solving complex societal problems and thus building a peaceful and prosperous nation.

## MISSION

**M1:** To impart quality engineering education so that they become perfect IT professionals by getting high quality of technical education, research, training, professionalism with strong ethical values.

**M2:** To educate students in such a way that they shape up their minds to ensure their productive career in industry and academia.

**M3:** To help students to excel in research and innovation that discovers new knowledge which enables new technologies and systems.

**M4:** To prepare students to become an industry ready IT professional by inculcating creativity, team spirit, leadership and ethical competence through industry-academia collaboration, continuous curricular, co-curricular and extra-curricular activities.

# Department of Information Technology
## PROGRAM OUTCOMES (POs)

## ENGINEERING GRADUATES WILL BE ABLE TO:

**1. Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

**2. Problem analysis:** Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

**3. Design/development of solutions:** Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

**4. Conduct investigations of complex problems:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

**5. Modern tool usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.

**6. The engineer and society:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

**7. Environment and sustainability:** Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

**8. Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

**9. Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

**10. Communication:** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

**11. Project management and finance:** Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

**12. Life-long learning:** Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

# PROGRAM EDUCATIONAL OBJECTIVES [PEO]

**PEO1**: Graduates of the program will be able to apply fundamental principles of engineering in problem solving and understand the role of computing in multiple disciplines.

**PEO2**: Graduates will learn to apply the various computational techniques & tools for developing solutions & projects in real world.

**PEO3**: Graduate will be employed as Information Technology (IT) professional beyond entry-level positions or be making satisfactory progress in graduate programs.

**PEO4**: Graduate will be able to demonstrate that they can function, communicate collaborate and continue to learn effectively, and ethically as a socially responsible information technology professional. They will contribute to the society by the

# PROGRAM SPECIFIC OUTCOMES [PSO]

**By the completion of program the students will have following program specific outcomes.**

**PSO1:** Foundation of computer system: Ability to understand the principles and working of computer systems & information technology.

**PSO2:** Foundations of software development: Possess professional skills and knowledge of software design process. Familiarity and practical competence with a broad range of programming language and open source platforms.

**PSO3**: Foundation of mathematical concepts: Ability to apply mathematical methodologies to solve computation task, model real world problem, using appropriate data structure and suitable algorithm.

**PSO4**: Applications of computing and research ability: Ability to use knowledge in various domains to identify research gaps and hence to provide solution to new ideas and innovations.
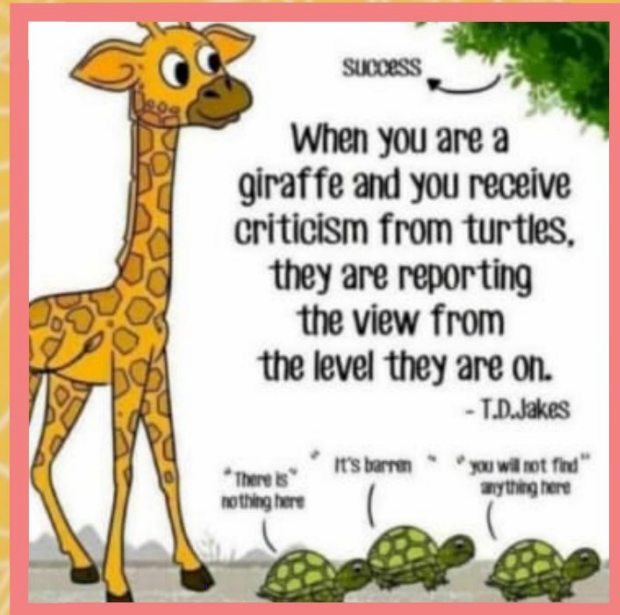
# Director's Message

## LOOK FOR A SILVER LINING EVEN IN THE DARKEST CLOUD
• • • • • • • • • • •

God has also created the universe with sharp contrasts. He gave us night but gave us day too. He created darkness but with light, odor but with fragrance, pain but with pleasure. The year 2020 also came to us painted in black and white. It made many good souls disappear from the Earth, stole away many jobs and got us confined to our homes but at the same time, 2020 has taught us some best lessons of life which we could not have learnt otherwise. It taught us the value of life, relations and money. It taught us that good health is above everything. It gave us the pleasure of spending quality time with our family members and friends. It made us learn how life can go on with the least expenses. It made us more spiritual and granted us opportunities to practice meditation and Yoga. The summary is that each coin has two sides and we too have two choices in life – one to resist the change and perish and the second one to accept the change and move on.



The right attitude and the right perception connects us to good things and good results in life. Do not compare yourself with others and do not get disturbed with their criticism. Just keep doing well with the best of your abilities. The American bishop, author and film-maker T.D. Jakes has rightly said – "When you are a giraffe and you receive criticism from turtles, they are only reporting their view from the level they are on". We should neither try to please people nor should have the expectations to get pleased by them. The Gita says – 'Work is worship' and the same is my motto of life too, because –

कुछ किये बिना ही जय जय कार नहीं होती,
कोशिश करने वालों की कभी हार नहीं होती।

**Prabal K. Chakravorty**
**Director**

# IMS Engineering College

(NAAC 'A' Grade Accriditation, Affiliated to Dr A P J Abdula Kalam Technical University, Lucknow & Accriditated by AICTE, New Delhi)

# INFORMATION TECHNOLOGY DEPARTMENT

## Student Achievement & Awards:

- Student participation & paper presentation in various National & International Conferences.
- Students awarded in various National Level Technical Project Competitions
- HACKATHON-2020 Screening
- Active participation in Cultural & CSR activities
- Active participation in Sports: Up to Zonal & State level

## Innovation & Entrepreneurship:

- Students Innovative projects
- Demonstration in TECHNOVATION, HACKATHON -(SIH -2020)
- Regular interaction with Alumni Entrepreneur
- Participation in Entrepreneurship Awareness Camp(NIESBUD, Ministry Of Skills Development Government Of India)
- Startup Support(MSME)

## Campus:

Established in 2002,
NAAC Accredited with Grade 'A'
Approved by AICTE, New Delhi
Affiliated to Dr. A P J Abdul Kalam Technical University, Lucknow
Ranked 6th by TOI Survey

## Department:

Quality focused & Global standard academic system
Highly qualified & well experienced faculty members
Faculty participation in research & Ph.D Programs
Excellent Placement Record
Departmental Club: InfoCorp , Techninjas 2.0
Departmental E-Magazine: ITanium
Alliance with RedHat  Academy ,NPTEL, Local Chapter, NASSCOM, Amazon AWS, Adobe Spark, COURSERA

## Laboratories:

- Data Analytic Lab
- Geo-Spatial Lab
- Open Source Lab
- Data Warehouse & Big Data Processing Lab

## Placement (2018-19):

Major Recruiters: TCS, Wipro, Accenture, Infosys, Genpact etc.
Highest Package: 7.3 Lakhs
Students placed:101 (2018-19)
Companies Visited in Campus: 52

## Industry MOU:

RedHat Academy
Tevatron Technology
HANTECH
ICT Academy IIT-K Prutor

# Quotable Quotes

"Challenges are what make life interesting and overcoming them is what makes life meaningful."

–Joshua J.Marine

"It had long since come to my attention that people of accomplishment rarely sat back and let things happen to them. They went out and happened to things."

–Leonardo Da Vinci

"If you want to live a happy life, tie it to a goal, not to people or things."

–Albert Einstein

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# ARTICLES

# Evolutionary Computation

What do you think when you hear the word 'Evolution'? Something close to the natural pro--cess of biological beings getting progressive and reaching next level of intelligence when compared from their predecessors . Yes ,but it gets more interesting when technology takes inspiration from the same. Let's find out how...

## What is Evolutionary Computing

It is the study of computational systems which use ideas & get inspirations from natural evo--lution . Evolutionary computation techniques can be used in optimization, learning & creat--ive design . EC techniques do not require rich domain knowledge to use. However , domain knowledge can be incorporated into EC techniques. Generally, EC systems maintain a pop--ulation of individuals encoded as possible solutions to a computational problem or task. Individuals are selected for recombination & mutation based on their fitness, a value corre--sponding to the success of the individual in the task. Intuitively, evolution will naturally prog--ress to produce individuals that maximize this fitness. In this form, fitness is the only inform--ation collected from the task, which is otherwise considered a black-box.
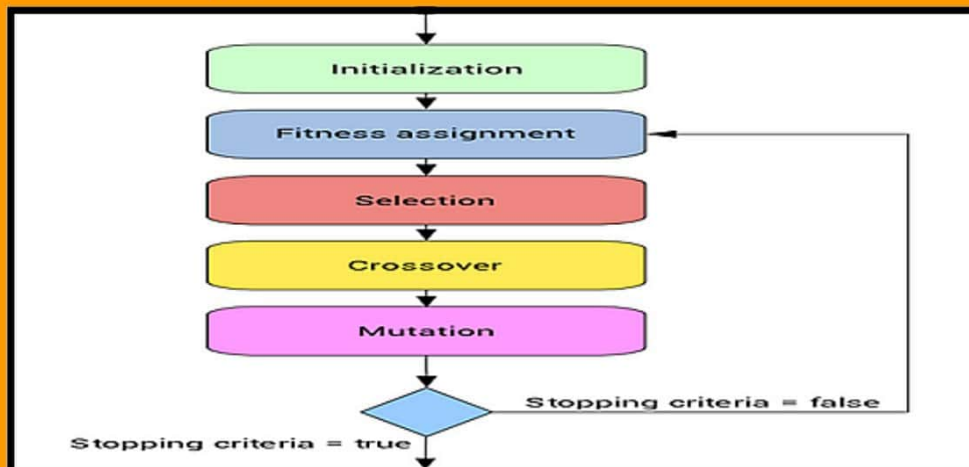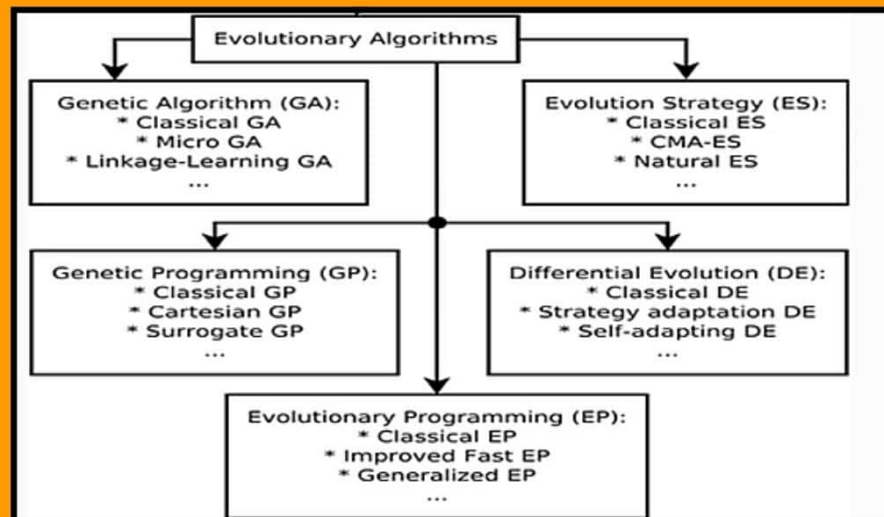


## Traditional approach vs Evolutionary Computing

Let's understand with the case study example of Astrophysics . Empirical laws are widely used in astrophysics . However , as the observational data increase, some of these laws do not seem to describe the data very well . Can we discover new empirical laws that describe the data better ? Our current approach is to select a functional form in advance . It has a numerous drawback, the very basic being it's an ad hoc approach.Also,it is difficult to dete--rmine and may only suit a smaller number of profiles.We proceed further by applying fitting algorithms to find suitable parameters for the function . This usually adopt the non-linear re--duced c2 minimization.

$$\chi^2 = \frac{1}{\upsilon} \sum_i \frac{[I_{model}(i) - I_{obs}(i)]^2}{\delta^2}$$

where $I_{obs}(i)$ is the individual observed profile value, $I_{model}(i)$ is the value calculated from the fitting function, $\upsilon$ is the number of degrees of freedom, and $\delta$ is the standard deviation of the data.

**With EC Approach**, We first find functional forms using GP (Genetic Programming) which is a data-driven process without assuming a functional form in advance & utilizes bottom up process which suit modelling a large number of galaxy profiles without any prior knowledge of them The we Fit parameters in the form found using FEP (Fast Evolutionary Programming) which shares the advantage of not being sensitive to initial setting values & is more likely to find global minima which eliminates the biggest drawback of traditional approach of being trapped in the local minima.



Evolutionary Algorithms

Genetic Algorithm (GA):
* Classical GA
* Micro GA
* Linkage-Learning GA
...

Evolution Strategy (ES):
* Classical ES
* CMA-ES
* Natural ES
...

Genetic Programming (GP):
* Classical GP
* Cartesian GP
* Surrogate GP
...

Differential Evolution (DE):
* Classical DE
* Strategy adaptation DE
* Self-adapting DE
...

Evolutionary Programming (EP):
* Classical EP
* Improved Fast EP
* Generalized EP
...

## Latest Applications of Evolutionary Computing

Determining Unified Creep Damage Constitutive Equations in Aluminium Alloy Modelling:Cr--eep behaviors of different materials are often described by physically based unified creep damage constitutive equations .Such equations are extremely complex. They often contain undecided constants.Traditional approaches are unable to find good near optima for these parameter.Evolutionary algorithms have been shown to be very effective.Classical evolutio- -nary programming (CEP), fast EP (FEP)& improved fast EP (IFEP) can be used to find para- -meters in a complex and nondifferentiable space.
Constraint Handling and Stochastic Ranking :Real-world problem has many constraints, e.g., linear, nonlinear, equality, inequality. EC works better than other methods because of being More effective ,good at dealing with non-differentiable and nonlinear problems and the avoidance of unnecessary and unrealistic assumptions.It is a simple yet effective constraint handling method which exploits the characteristics of evolutionary algorithms.

## Challenges and Future Scope of EC

The values of Evolutionary Computing parameters which are "good" in one problem cannot be sufficient in another one. Therefore searching for new techniques in such area as autom--ated tuning & adaptive parameter control is still a hot topic in EC. Another important issue in the industrial application of Evolutionary Algorithm (EA) methods is a proper definition of an objective function . The industrial problems are very complex . Therefore,a definition of a

good mathematical model (good objective function for EAs ) for a  given industry process is also a very demanding task .The "quality " of the chosen objective function will have a great influence on the results obtained using EA methods .The next issue which we want to menti--on in discussing is repeatability of the EA methods. As we know,the EAs are stochastic tec--hniques.Each time the EA method is run, a different result can be obtained .Therefore , the main  focus should be on  ensuring repeatability of  the results generated by EA techniques. This issue is very important for application on EA methods in industry.
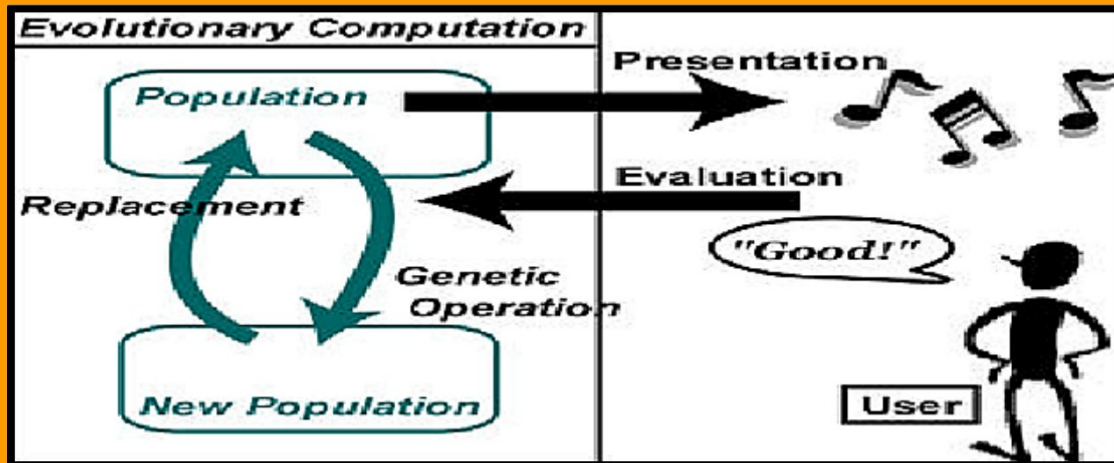


In summary , i believe that in the future, new evolutionary algorithms will be developed , and the research problems connected with evolutionary algorithms will always be a hot topic for researchers.



**Sagar Srivastava**
**QA SME – Infosys Limited**
**(2018-Present) IMSEC - IT (2014-18)**

# Artificial Intelligent Techniques in Engineering and Applied Sciences

Artificial intelligence is a branch of computer , it is a new science & technology to study &develop the theory, methods & application systems for simulating,extending and expanding human intelligence. The research objects in this field mainly include robot,language recognition,image recognition,natural language processing, expert systems and various engineering issues. So , the emergence & development of AI is helpful for human beings to finally understand  the formation of their own intellige-
-nce in natural science.At the same time,it also promotes the development of com-
-puter industry, network industry and engineering applications , so as to bring great macro benefits to the economy.

The solution of problems by AI technology is how to let the machine solve the prob-
-lem that the human will encounter as well as how to find the way to think  &  solve the problem according to a specific problem . At present , AI technology can solve the engineering  problem through computer program, and can seek more accurate solutions.

One of  the most enduring areas  of inquiry in AI  research is  logical  reasoning.The proof of the theorem is to let the machine prove the truth  & falsehood of the non-numerical.Among them,it is more important to focus on the valid facts in large dat-
-abases by finding reasonable and accurate methods . Besides , it also should pay attention to the proof of their credibility &to modify these proofs in time when new information appears . Another manifestation of  AI is the communication of natural language. Natural language processing is to make the machine communicate with human without hindrance , which  is a typical eg :- of the application of AI techno-
-logy in practical field . At present, the main research content in this field is how to use computer systems to generate & understand natural language based on topics & dialogue situations.



Artificial Intelligence
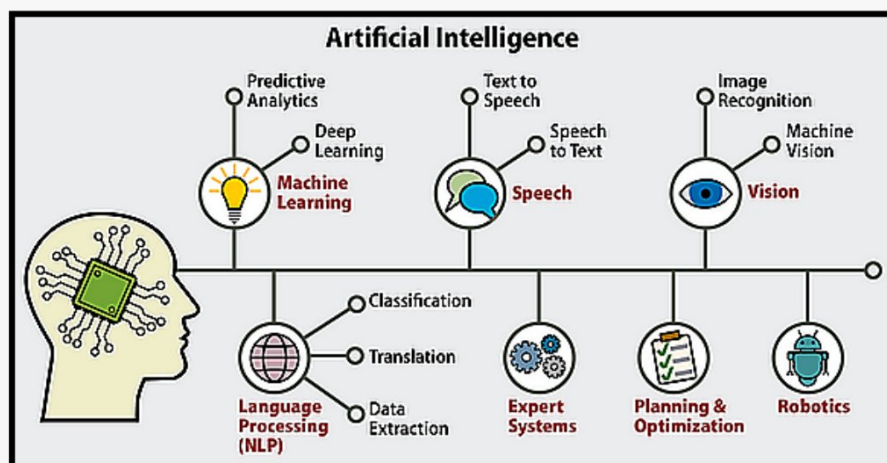
The pattern Recognition is the key to develop intelligent machine by AI technology. It is mainly to study the automatic processing&interpretation of the mode by means of mathematical technology,so that the computer can realize the functions of see- -ing & hearing and so on.The main characteristics of computer pattern recognition are fast speed,high accuracy & high efficiency. Computer pattern recognition also provides favorable help for human beings to understand their own intelligence.
With the rapid development of science and technology,human beings have entered the era of knowledge explosion .The traditional retrieval system is insufficient for such a large number &a wide variety of literature retrieval requirements.The impor- -tant premise of the sustainable & stable development of AI technology is the inte- -lligent retrieval module. It can be said that the application of intelligent informat- -ion retrieval technology is imperative.



The expert system we often say refers to the knowledge acquired from human exp- -erts & used to solve difficult problems that only experts can solve.This is a knowle- -dge based system, which is also called knowledge-based system. Expert system is the most active & effective field in artificial intelligence technology.Nowadays, the expert system especially mimics the way experts think in dealing with faults, and its level can sometimes even exceed that of human experts.
Robots are no stranger to us & have been increasingly used in many fields ,such as agriculture,industry,commerce,tourism,aviation & the sea. So, the problems studied in robotics mainly include the planning method from the optimal movement of the robot arm to the action sequence to achieve the robot goal.The research of robot- -ics and robotics has promoted the development of artificial intelligence.

**Akriti Singh**
**B. Tech, IT-3rd Year**

# Genetic Algorithm Reflects the Process of Natural Selection

Genetic Algorithm may be a search-based optimization technique supported the principles of Genetics and survival . It's frequently wont to find optimal or near - optimal solutions to difficult problem which otherwise would take a lifetime to unravel . It's frequently wont to solve optimization problems , in research,and in machine learning .Nature has always been an excellent source of inspiration to all or any mankind . GA are search based algorithms supported the concepts of survival and genetics . GA's are a subset of a way larger branch of computation referred to as Evolutionary Computation . GA's were developed by John Holland and his student and colleagues at the University of Michigan , most notably David E.Goldberg & has since been tried on various optimization problems with a high degree of success.

GA's are global search algorithm that employment by using the principles of evolution . Tr--aditionally , GA's have used binary strings to encode the features that compose a private within the population ; the binary segments of a private that represent a selected feature are referred to as chromosomes . Binary strings are convenient to use because they will be easily manipulated by GA's operators like crossover & mutate .Bnary chromosomes also can be wont to represent non-binary numbers that have integer and floating point types.Given a drag & a population of people , a GA will evaluate each individual as a possible solution consistent with a predefined evaluation function . The evaluation function assigns a worth of goodness to every individual supported how well the individual solves a given problem.



| Chromosome | Fitness Value |
|---|---|
| A | 8.2 |
| B | 3.2 |
| C | 1.4 |
| D | 1.2 |
| E | 4.2 |
| F | 0.3 |
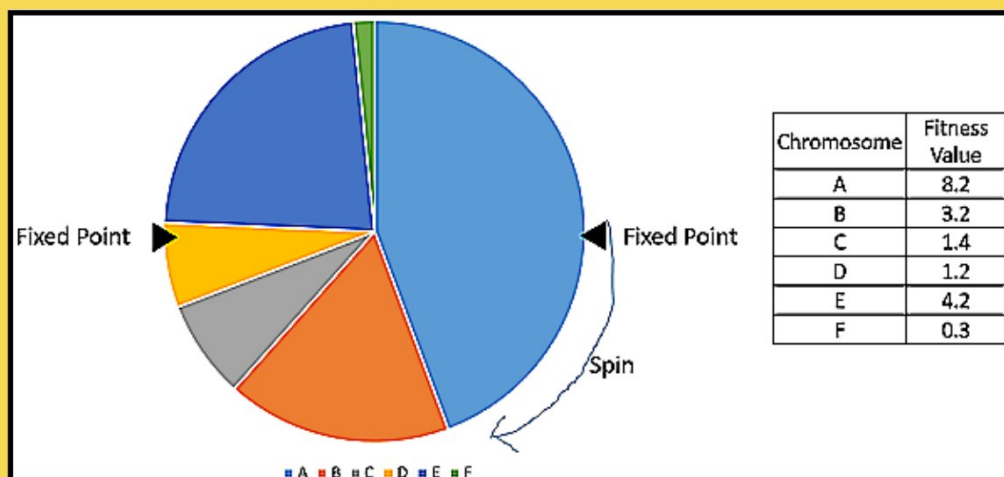
## ADVANTAGES

GA's have various advantages which have made them immensely popular. These include -
- Doesn't require any derivative information (which might not be available for several real world problems).
- Is quicker and more efficient as compared to the normal methods.
- Have excellent parallel capabilities.
- Optimizes both continuous and discrete functions and also multi-objective problems.
- Provides an inventory of "good" solutions and not just one solution.
- Always gets a solution to the matter, which gets better over the time.
- Useful when the search space is extremely large and there are an outsized number of parameters involved.

# LIMITATIONS OF GENETIC ALGORITHM

Like any technique, GA's also suffer from a couple of limitations. These include -
- GA's aren't fitted to all problems , especially problems which are simple and that deri- -vative information is out there.
- Fitness value is  calculated repeatedly which could be computationally expensive for a few problems.
- Being stochastic, there are not any guarantees on the optimality or the standard of the answer .
- If not implemented properly , the GA might not converge to the optimal solution.

GA have the power to deliver a "good-enough" solution "fast-enough". This makes  genetic algorithms attractive to be used in solving optimization problems the explanations why GA are needed are as follows –

## Solving Difficult Problems

In computing,there's an outsized set of problem,which are NPHard. What this essentially m- -eans is that, even the foremost powerful computing systems take a really while (even yea- -rs! )to unravel that problem.In such a scenario, GAs convince be an efficient tool to supply usable near-optimal solutions during a short amount of your time.
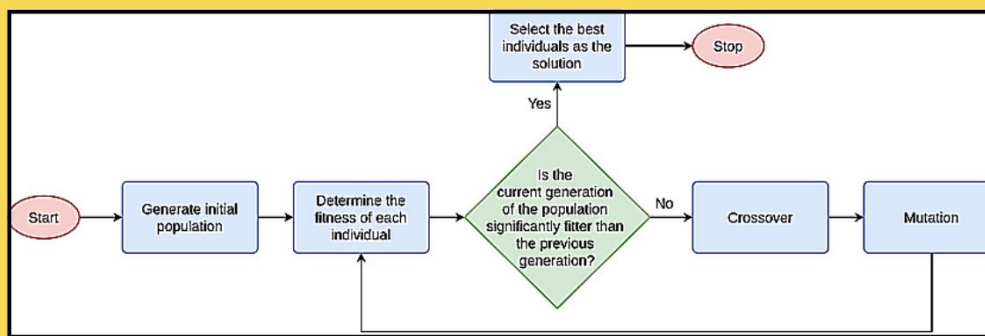


## Failure of Gradient Based Methods

Traditional calculus based methods work by starting at a random point &by occupation the direction of the gradient , till we reach the highest of Capitol Hill . This system is efficient & works alright  for single-peaked  objective functions just like the  cost function in rectilinear regressions . But , in most real-world situations , we've a  really complex  problem called as landscapes , which are made from many peaks & lots of valley which causes such methods to fail, as they suffer from an inherent tendency of getting stuck at the local optima.

## Getting an honest Solution Fast

Some difficult problems  just like the Travelling Salesperson  Problem (TSP) have real-world applications like path finding and VLSI Design . Now imagine that you simply are using your GPS Navigation system, & it takes a couple of minutes to compute the "optimal" path from the source to destination.Delay in such world applications isn't acceptable & thus a "good-enough" solution , which is delivered "fast" is what's required.



**Devanshi Srivastava**
**B. Tech, IT-3rd Year**

# ALUMNI SPEAKS

# Vishal Chawla
## IT (2009-2013) Batch, Tech Lead, Publicis, Sapient, Noida

It would be really difficult to sum up four years of college days in couple of lines but those were definitely the wonderful years of my life. IMSEC has provided me the platform for all-round development. Along with the top-notch education from some of the finest faculty members, I also got a lot of industry exposure which has shaped me into a true professional. I still remember how much effort Faculties put to make students all-rounder. Multiple initiatives like Industry tours, Conferences, In-house software development cell, Techfests etc. help students grow in all aspects of career.

I am extremely thankful to IMSEC and IT Department for shaping me into what I am today. The memories are beautiful and I shall always cherish.

My best wishes for all the current students of the institute, you've been blessed with the best. Good luck for your bright future.

## Srija Srivastava
## IT (2010-2014) Batch,
## IT Project Manager,
## ZS Associates,
## Princeton, New Jersey, USA

At the very outset I would like to express my heartiest thanks to the IMSEC family. My warm regards to my department, the Department of Information Technology. Being at this place for 4 years was very interesting for me. I have so many amazing memories, from last minute studies to studying all night, from skipping lectures to getting tensed for Sem exams and scoring good percentage, from submitting Assignments on time to getting done with projects...my engineering life has been quite a journey!

My experience at IMSEC was very different and has led me to explore and learn new things in terms of personal and professional aspects. Our IT Department has friendly and co-operative faculty which helps students to muster all their knowledge, skills and then apply it in a positive direction.

Last but not the least, I feel blessed to be a part of such institute which was more like my second home and moulded me into who I am today.

Good wishes to all my junior students, may you get what you truly deserve and keep up the good work. All the Best !!

# Lit Drops

**Updesh Kumar Jaiswal**
**Assistant Professor,**
**IT Department,**
**IMSEC, Ghaziabad**

# "सोन चिरैया" भारत

संरचना स्वतंत्र भारत की, जिसकी कल्पना भी बहुत दूर थी,
आज़ादी दिलाई हमें उन शहीदों ने, जिनमें देश-प्रेम की भावना भरपूर थी।
इंकलाब के नारे थे, गली- गली जयघोष था,
पूर्ण स्वराज प्राप्त करना, पूरे भारत में उद्घोष था।।
खून से लथपथ वीरों की काया थी, किन्तु हृदय उनका गौरवपूर्ण था,
अंत समय में भी निडर शहीदों के मन में प्रसन्नता थी, और भारत देश के लिए उनका कार्य सम्पूर्ण था।
दुश्मन हजारों खड़े थे, फिर भी स्वतंत्रता-सेनानी हार ना माने थे,
वीर रस की वो प्रतिमूर्ति थे, और स्वयं को भारत माता का सच्चा सपूत जाने थे।।
सोन चिरैया भारत की आजादी के लिए, ना जाने कितने "भगत सिंह" शहीद हुए थे,
हिन्दुस्तान को सबसे पूजनीय माने, अनेकों "चन्द्र शेखर आज़ाद" जैसे वीर हुए थे।
स्मरण रहे यह आज़ादी प्राप्त हुई, सहज में ही नहीं,
हजारों देश के लिए बलिदान हुए, ये बात गलत ही नहीं।।
आज भी धन्य वो गोद उस मां की, जो अपने सपूतों को प्रेरित करती है,
हृदय पर मां पत्थर रख बेटों को सरहद पर मर-मिटने को भेजती है।
ईद-दीवाली त्योहार नहीं, भारत के सैनिक खून की होली खेलते हैं,
अनमोल मानकर इस भारत माता को, अपने प्राण भी न्यौछावर कर देते हैं।।
फिर भी अब हम युवा पीढ़ी क्यों भयभीत हैं, सच्चाई और ईमानदारी के मार्ग पर चलने को,
हम भी भारत के वासी हैं, लड़ेंगे झूठ और बेईमानी इस देश से खत्म करने को।
दोस्तो; क्या स्मरण नहीं वो वीर गाथाएं भारत माता के आजादी की,
पराधीनता की बेड़ियों को तोड़ने वाले, उन ईमानदार फौलादी की।।
अरे तुम युवा रक्त लिए, फिर से सोन चिरैया देश का प्रतीक बनो,
प्रेरित होकर हमारे देश के सच्चे सपूतों से, अपने जीवन की मंत्रणा सटीक करो।
झूठ और अन्याय के खिलाफ हमेशा विरोध और संघर्ष करो।।
बढ़ते चलो सच्चाई के मार्ग पर, जीवन में अपना ऊंचा नाम करो,
गौरव बड़े देश का, बस ऐसा कुछ काम करो !!!!

**Mohan Agrawal**
IT (2011-2015) Batch,
Project Lead and IT Consultant,
MAQ Software,
Redmond, Washington, USA

# EDUCATION OVER LITERACY

## <<Literacy>>

Growing up, cramming was part of my daily routine

Reinforcing this is only way to keep my family fed

Now that I am able to secure the family bread

Something is lacking as I am literate but not educated

## <<Education>>

I am a grown-up now with acquired skills and learning

But application in real life scenarios is absolutely missing

Respecting others, forming own opinions, and building a nation

To the society including me, that's the power of a worthy education

## <<What's Next>>

Sprinting in the rat race, struggling to outshine others

Cumulating ample degrees while trying to change fates

Self-Introspecting question, that we all need to focus is

Ain't we just mass producing a breed of uneducated literates?

# कटु सत्य

कहते है कुछ बातें अल्फ़ाज़ बयां नहीं करते,
कुछ यादों की ये बात लफ्ज़ नहीं है कहते।
परियों की कहानियों में पले बढ़े है हम,
यूं काल्पनिक कथाओं में भी था हमें हसाने का दम।
पर उस अनजानी राह को छोड़ चले हम,
मुकाबला ए दौर है किसको करे किससे कम।
प्राचीन देश में हुए बलिदानों को किताबों में हम पड़ते है,
कागज़ो के निबंधों में एक उत्कृष्ट राष्ट्र की रचना करते है।
पर अफसोस है प्रीति जहां की है रीति सदा वहीं हर पल प्रीति ठुकराई जाती है,
नफ़रत और हिंसा की रीति अपनाई जाती है।
नेताओं का खेल तो सिंहासन की मोह माया है,
सिंहासन की रचना ने सदा ही अपनों को अपनों से लड़वाया है।
हम भी खुद को सभ्य समाज नागरिक कहलाते है,
फिर क्यों सभ्यता को भूल असभ्य बन जाते है।
ईमानदारी को झुकाते है,प्रेम हो तो अश्रु निकलवाते हैं,
सत्य को मिथ्या और मिथ्या को सत्य भी बनाते हैं।
आपस में मतभेद करे स्वयं अस्वच्छता फैलाते है,
खुद देश बर्बाद करते फिर सरकार पर दोष लगाते है।
देश पे बने हर अभिनय में तो बड़ा जोश दिखाते है,
पर क्या कभी स्वयं से पूछा है कि खुद कितना निभा पाते है।
इंसानियत की बात करने वाले खुद हैवान बन जाते हैं,
किसी की कद्र नहीं करते और खुद भगवान कहलाते है।
उत्कृष्ट कवि तो नहीं पर सत्य उजागर करती हूं,
कटु सत्य ही सही पर कहने से ना अखरती हूं।
अतः हैवान नहीं इंसान बनो,अभिमान नहीं बलिदान करो,
त्याग करो,वैराग्य करो,पर कभी ना तुम शैतान बनो।
सरकार को दोष लगाना बंद करो पहले स्वयं उठके कुछ कम करो,
प्रीति को बनाए रखो सदा,दुनिया में अपना नाम करो।
किसी के दुख के सारथी बनो ऐसी इंसानियत का काम करो,
सबको आगे बढ़ाना सीखो,किसी को मत बदनाम करो,
बस कम करो बस कम करो,प्रीति में अपना नाम करो।

Urmis Agnihotri, IT, 3rd yr.

# AUTUMN SONG

Like a joy on the heart of a sorrow,

The sunset hangs on a cloud;

A golden storm of glittering sheaves,

Of fair and frail and fluttering leaves,

The wild wind blows in a cloud.

Hark to a voice that is calling

To my heart in the voice of the wind:

My heart is weary and sad and alone,

For its dreams like the fluttering leaves have

gone,

And why should I stay behind?

Ishita Roy, IT, 3rd yr

# संवाद का अभाव

देखो ज़रा शर्मा जी के लड़के का IIT में selection हो गया । अरे तुम्हे पता चला क्या अपने गुप्ता जी के लड़के का 30 लाख का पैकेज लगा है , सुनने में आया है Chartade Acountant बन गया उनका लड़का । आज की ताज़ा ख़बर " ऑटो वाले का लड़का बना IAS officer " ।

आज कल के भारतीय घरों में दिन - रात ये वाक्य सुनाई पड़ने आम हो गए हैं या ये कहा जाए कि अभिभावक अपने बच्चों को प्रोत्साहित करने के लिए इन बातों का जिक्र करते हैं । परंतु क्या वाकई वे प्रोत्साहित हो पाते हैं ? शायद नहीं ! वे इतना प्रोत्साहित नहीं हो पाते जितना उनका मनोबल टूट जाता है और इन तानों से परेशान आकर वे अपनी जिंदगी को खत्म करने जैसा कठोर कदम उठाने पर मजबूर हो जाते हैं । यहां अभिभावकों का उद्देश्य बच्चों का मनोबल गिराना  कतई नहीं होता , परंतु शायद उनका अपनी बात को रखने का तरीका गलत होता है और यही एक गलत तरीका उनके बच्चे को उनसे दूर  इतना दूर लाकर खड़ा कर देता है जहां पर आकर उस दूरी को खत्म करना लगभग नामुमकिन होता है ।

आखिर क्या कारण है कि माता-पिता को यह दिन देखना पड़ता है कि कल तक उनका जिगर का टुकड़ा जो यहां - वहां हंसते - खिलखिलाते घूमता था आज एक शांत चित्त की तरह लेटा हुआ है । इसके पीछे जो सबसे बड़ा कारण है वह यह है कि अभिभावक और छात्रों में संवाद की कमी का होना और संवाद का यह भाव उत्पन्न होता है हमारे समाज के कारण । यह हमारा समाज ही है जिसने अभिभावक और बच्चों के बीच संवाद के पुल को जर्जर बना दिया है । ना तो बच्चे अभिभावकों की बात सुनना चाहते हैं और ना ही अभिभावक बच्चों की भावनाओं को समझना ।

बच्चे का रुझान कला या  साहित्य के क्षेत्र में होता है परंतु शर्मा जी के लड़के का selection IIT में हो गया तो आपको भी विज्ञान ही पढ़ना पड़ेगा । बच्चे का रुझान विज्ञान में है परंतु गुप्ता जी का लड़का Charted Acountant बन गया इसलिए आपको वाणिज्य पढ़ना होगा । तो कुल मिलाकर यह स्पष्ट होता है कि बच्चे हैं कठपुतलियां ,  समाज है एक पटकथा और अभिभावक हैं कठपुतलियों का खेल दिखाने वाले ।

कला या फिर कहे साहित्य इस क्षेत्र को तो अभिभावक अपने स्वाभिमान का एक हिस्सा समझते हैं कि यदि हमारे बच्चे ने कला या  साहित्य क्षेत्र को चुना तो समाज में तो हमारी नाक कट जाएगी । और विज्ञान वर्ग को समझा जाता है एक चमचमाती जिंदगी । इंटर में 90 % अंक प्राप्त हो जाएंगे , उसके बाद IIT Bombay से Computer Science से graduate हो जाएंगे इसके बाद Google में 1 करोड़ का package लग जाएगा उसके बाद life set. और यह चमचमाती जिंदगी देखने पर हमें मजबूर भी हमारा समाज ही करता है । एक सर्वे में बड़ी चौंकाने वाली बात सामने आई कि मात्र 1.8% तकनीकी छात्र ही ऐसे हैं जो अपनी शिक्षा ग्रहण करने के बाद तकनीकी क्षेत्र में ही रोजगार प्राप्त कर रहे हैं । बाकी 98.2% का क्या हुआ ?

चूंकि में Btech का छात्र हूं इसलिए यह समझता हूं कि चौथे सेमेस्टर तक आते-आते परिस्थिति बिल्कुल शीशे की तरह स्पष्ट हो जाती है कि क्या वाकई तकनीकी क्षेत्र में रोजगार ग्रहण करने के काबिल आप है या नहीं । मन में इस प्रश्न का उठना यह साफ दर्शाता है की छात्र और अभिभावक में संवाद का कितना अधिक अभाव है । और लगभग पांचवे या छठे सेमेस्टर तक आते - आते कई छात्र तो BTech पूरा करने से अधिक सरल अपनी सांसे थामना पसंद करते है ।

बॉलीवुड की एक बड़ी मशहूर फिल्म है " 3 Idiots " उसका एक बड़ा मशहूर गाना है जिसकी कुछ पंक्तियां यहां उधार लेना चाहूंगा

" हथेलियों पर लिख - लिख कर पड़ा एल्फा , बीटा , गामा का छाला और concentrated H2SO4 ने तो सारा , सारा बचपन ही जला डाला " । जिसका सीधा सीधा उद्देश्य इस बात से है कि अभिभावक बचपन से ही बच्चों की रुचि विज्ञान विषय में रखना चाहते हैं । फिर कुछ पंक्तियां आती है " Give me some Sunshine Give me some rain Give me another chance I wanna grow up once again " यहां  इसका सीधा सादा अर्थ यह निकलता है कि बस एक मौका एक आखरी मौका अगर मुझे मिल जाए तो अब तक जितने गलत फैसले मैने लिए है , जिन गलत फैसलों के कारण आज मैं इस परिस्थिति में हूं उन्हें ठीक करने का मुझे बस एक मौका मिल जाए जिससे मैं एक नई शुरुआत कर सकूं ।

तो अब आप अंदाजा लगा सकते हैं कि सिर्फ एक गलत फैसले या कहें कि संवाद की कमी के चलते न जाने कितने ही घरों के चिराग प्रज्वलित होने से पहले ही बुझ गए । सिर्फ इतना ही नहीं जो बेचारे इन सभी दूविधाओं को पार करते हुए , तनाव की जंजीरों में जकड़े हुए किसी तरह अपनी greduation कर लेते हैं उन्हें आगे चलकर सामना करना पड़ता है बेरोजगारी का शर्मिंदगी का और सुनने पड़ते हैं समाज के लाखों ताने ।

अब आप देखिए  कि इस से एक तो बच्चों का समय व्यर्थ हुआ और दूसरा अभिभावकों का पैसा और हासिल हुई सिर्फ निराशा ।

यहां मेरा उद्देश्य अभिभावकों को गलत ठहराना कदापि नहीं है मेरा अगर कुछ उद्देश्य है तो यह है कि अभिभावक और बच्चों में जो संवाद की दूरी बढ़ रही है उसे किस तरह दूर किया जा सके और छात्र व अभिभावक किस प्रकार एक खुशहाल जिंदगी जी सके ।

Vansh Tyagi , IT, 2nd Year

# NEWS WORTHY

# Current Affairs

## SHRAMSHAKTI: INDIAN GOVERNMENT LAUNCHES PORTAL TO COLLECT DATA RELATED TO TRIBAL MIGRANT WORKERS

The 'ShramShakti' digital portal will be successfully able to address the data gap and also empower the migrant workers, who generally move in search of income generation and employment.

## PRIME MINISTER MODI GIVES OUT LAND ALLOTMENT CERTIFICATES TO INDIGENOUS PEOPLE IN ASSAM

Taking into account an urgent need of protecting the land rights of the indigenous people of the state, the Assam government came out with a comprehensive new Land Policy.

## KHELO INDIA ZANSKAR WINTER SPORTS FESTIVAL STARTS IN LADAKH

The Khelo India Zanskar Winter Sports Festival began at Padum in Zanskar, Kargil district of Ladakh on January 21, 2021. The festival was inaugurated by Union Sports and Youth Affairs Minister Kiren Rijiju and will go on for 13 days.

## FOUNDATION STONE OF AHMEDABAD METRO PHASE-II LAID

PM Narendra Modi laid the foundation stone of two metro projects in Gujarat virtually on January 18, 2021. The Ahmedabad Metro Rail Project Phase-II and Surat Metro Rail Project will help introduce 'Mass Rapid Transit Systems' and will be implemented by the Gujarat Metro Rail Corporation (GMRC).

# NEWS & POLITICS

## OVER 15 LAKH BENEFICIARIES VACCINATED, SAYS HEALTH MINISTRY



India completed administering the first dose of the vaccine to more than 15 lakh beneficiaries in the priority groups of healthcare and frontline workers, a week after it rolled out the world's largest immunisation drive against Covid-19.

## COVISHIELD TO BE GIVEN TO BHUTAN FOR FREE, 2MN DOSES AS A GIFT TO BANGLADESH

Bhutan Prime Minister Lotay Tshering announced that the Indian government will provide COVID-19 vaccines for free. Bangladesh will receive 2 million doses of COVID-19 vaccine 'Covishield' as a gift from India on January 20.



## NETAJI SUBHAS CHANDRA BOSE'S BIRTH ANNIVERSARY TO BE CELEBRATED AS PARAKRAM DIWAS ANNUALLY



Netaji Subhas Chandra Bose's birth anniversary on January 23 will be celebrated as Parakram Diwas every year as recently announced by the Centre. The Union Ministry of Culture has taken this decision to inspire people of this country especially the youth and to inspire in them a spirit of patriotic passion.

## US APPLAUDS 'TRUE FRIEND' INDIA FOR GIFTING COVID-19 VACCINE TO SEVERAL COUNTRIES

In the last few days, India has sent consignments of domestically produced coronavirus vaccines under grant assistance to Bhutan, Maldives, Nepal, Bangladesh, Myanmar, Mauritius and Seychelles.

# SCIENCE & TECHNOLOGY

## RELIANCE JIO BEGINS ADVANCED 5G TESTS IN INDIA



Indian billionaire Mukesh Ambani doubled down on his promise to offer 5G services on his wireless network as early as this year, as his conglomerate Reliance Industries Ltd. reported a record profit aided by its consumer businesses.

## INTEL AVOIDS OUTSOURCING EMBRACE, INVESTIGATES HACK OF RESULTS

The incoming chief executive of Intel Corp said on Thursday, 21st Jan, that most of the company's 2023 products will be made in Intel factories but he sketched a dual-track future in which it will lean more heavily on outside factories.



## GOOGLE PARENT ALPHABET SHUTS PROJECT LOON TO BEAM INTERNET FROM HIGH-ALTITUDE BALLOONS



Google's Project Loon pared back its initial ambitions -- relying on fewer balloons and covering only select areas of the globe -- and recruited several veterans from the satellite and wireless industry.

## APPLE'S FIRST HEADSET TO SET STAGE FOR EVENTUAL AR GLASSES

Apple is aiming to include some of its most advanced and powerful chips in the headset along with displays that are much higher resolution than those in existing VR products. As a mostly virtual reality device, Apple's first headset will display an all-encompassing 3-D digital environment for gaming, watching video and communicating.
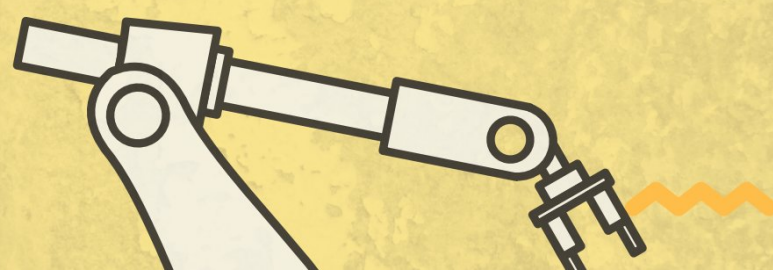
# SPORTS

## AS ORGANISERS PRESS AHEAD WITH THE OLYMPICS, ANTICIPATION MAKES WAY FOR ANXIETY ON GROUND



The Olympic Symbol is reinstalled after it was taken down for maintenance ahead of the postponed Tokyo 2020 Olympics in the Odaiba section Tuesday, Dec. 1, 2020, in Tokyo

## SIX INDIA CRICKETERS GET SUVS FROM ANAND MAHINDRA AFTER HISTORIC WIN IN AUSTRALIA

India after chasing 328 to win the Test series against Australia 2-1, at Brisbane, Tuesday. It was the first loss for Australia at 'Fortress Gabba' in 32 years . The impressive performance by the young Indian side Down Under has been applauded by one and all across the globe.



## WITH EYE ON DOMESTIC PLAYERS' LIVELIHOOD, BCCI PLANS RANJI TROPHY BEFORE IPL



The Ranji Trophy, India's premier First-Class tournament, which couldn't be conducted last year due to the pandemic, will likely be held before the Indian Premier League (IPL).

## LIONEL MESSI FACING LENGTHY SUSPENSION FOR HITTING OPPONENT

Messi could be suspended for up to 12 games for the red card he received in the final minutes of his team's 3-2 loss to Athletic Bilbao in Seville on Sunday, 17th Jan . Manzano said in his match report that Messi hit his opponent with "excessive force" while the ball was not near him.

# DEPARTMENT NEWS
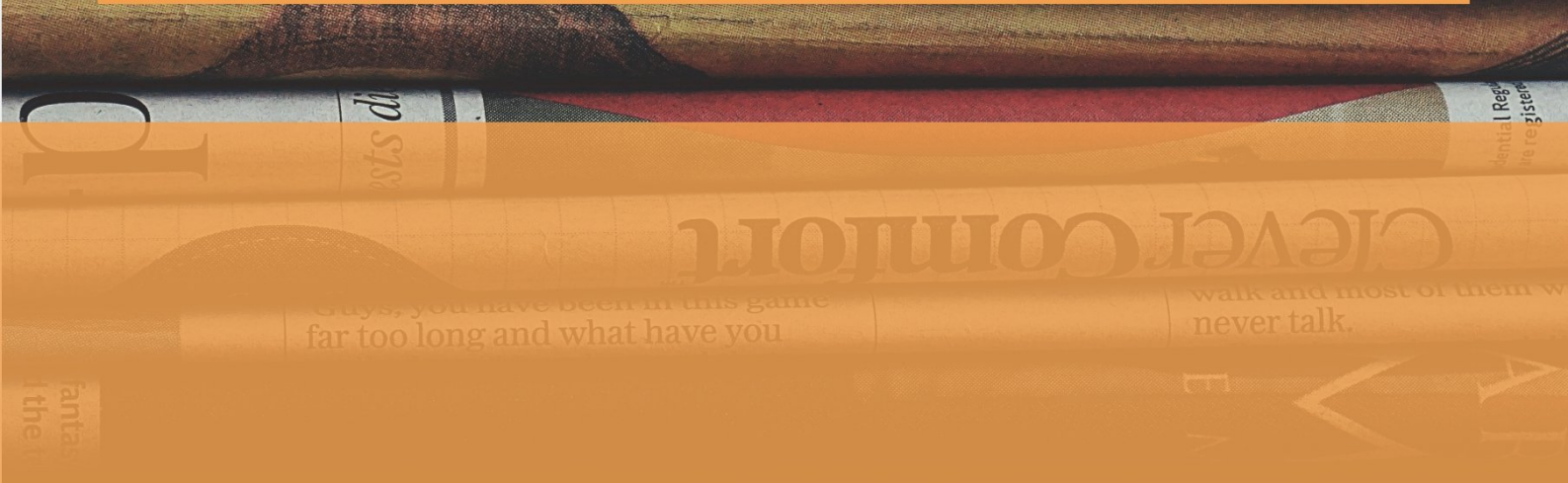
# Placement Details Batch(2021)

| Roll no | Name | Placed in |
| --- | --- | --- |
| 1714313005 | Aditya Kumar RajKamal | TCS |
| 1714313010 | Akshit Chaudhary | VVDN Technologies |
| 1714313014 | Arpit Sharma | Cloud Analogy |
| 1714313015 | Arushi Sanjay | TCS |
| 1714313016 | Aryan MIshra | Vinove Software |
| 1714313021 | Ayush Singh | TCS,Infosys |
| 1714313023 | Deepanshu | TCS |
| 1714313025 | Dheeraj Mishra | Knoldus Software |
| 1714313027 | Diksha Singh | TCS |
| 1714313030 | Harshit Sharma | Cloud Analogy |
| 1714313034 | Jatin Trivedi | TCS |
| 1714313036 | Kajal Khanna | TCS,Pimcore Global Services |
| 1714313053 | Nakul Mitra | Nagarro Software ,MoblilizeOn |
| 1714313055 | Nandkishore Mishra | TCS |
| 1714313056 | Navneet Vashisth | TCS |
| 1714313058 | Nirmit Srivastava | VVDN Technologies |
| 1714313060 | Nitin Saxena | Knoldus Software |
| 1714313061 | Palak Kapoor | TCS,IBM,Nagarro Software |
| 1714313071 | Prince Chauhan | TCS |
| 1714313074 | Rajvikram Saxena | TCS,ToXsl Technology |

| Roll no | Name | Placed in |
|---|---|---|
| 1714313078 | Sagar Goel | Knoldus Software |
| 1714313079 | Saloni Singh | VVDN Technologies |
| 1714313089 | Shubham Gupta | TCS |
| 1714313090 | Somya Mishra | TCS |
| 1714313093 | Umesh Yadav | TCS |

A Special Talk on "Startup India: Challenges & Opportunities" was delivered by Alumni of IT Department Mr. Gaurav Kumar ( Batch 2014-18). Mr. Gaurav Kumar is a successful entrepreneur at Bangalore. The online program was organized by IIC team & Department of IT of IMSEC on 05 January 2021.

Participation in two weeks online Faculty Development Program on Entrepreneurship by Dr. S. N. Rajan, Dr. Ajay Kumar Sahu & Mr Updesh Jaiswal. The program was organized by NIESBUD (National Institute for Entrepreneurship and Small Business Development (Under the Ministry of Skill Development and Entrepreneurship, Government of India) and sponsored by National Science & Technology Entrepreneurship Development Board (NSTEDB), Department of Science and Technology, Govt. of India, New Delhi. The duration of the program was from 11-23 January 2021.

*Sports* Is a very good way of releasing stress and .

*It Makes us Happy.*

# SPORTS Day

## 23rd Jan-2021

Venue:-
IMS ENGINEERING COLLEGE
NH-24, ADHYATMIC NAGAR, GHAZIABAD
Ph.- 01204940000, www.imsec.ac.in

Organised By:- Happiness Committee

IMS
ENGINEERING COLLEGE
GHAZIABAD
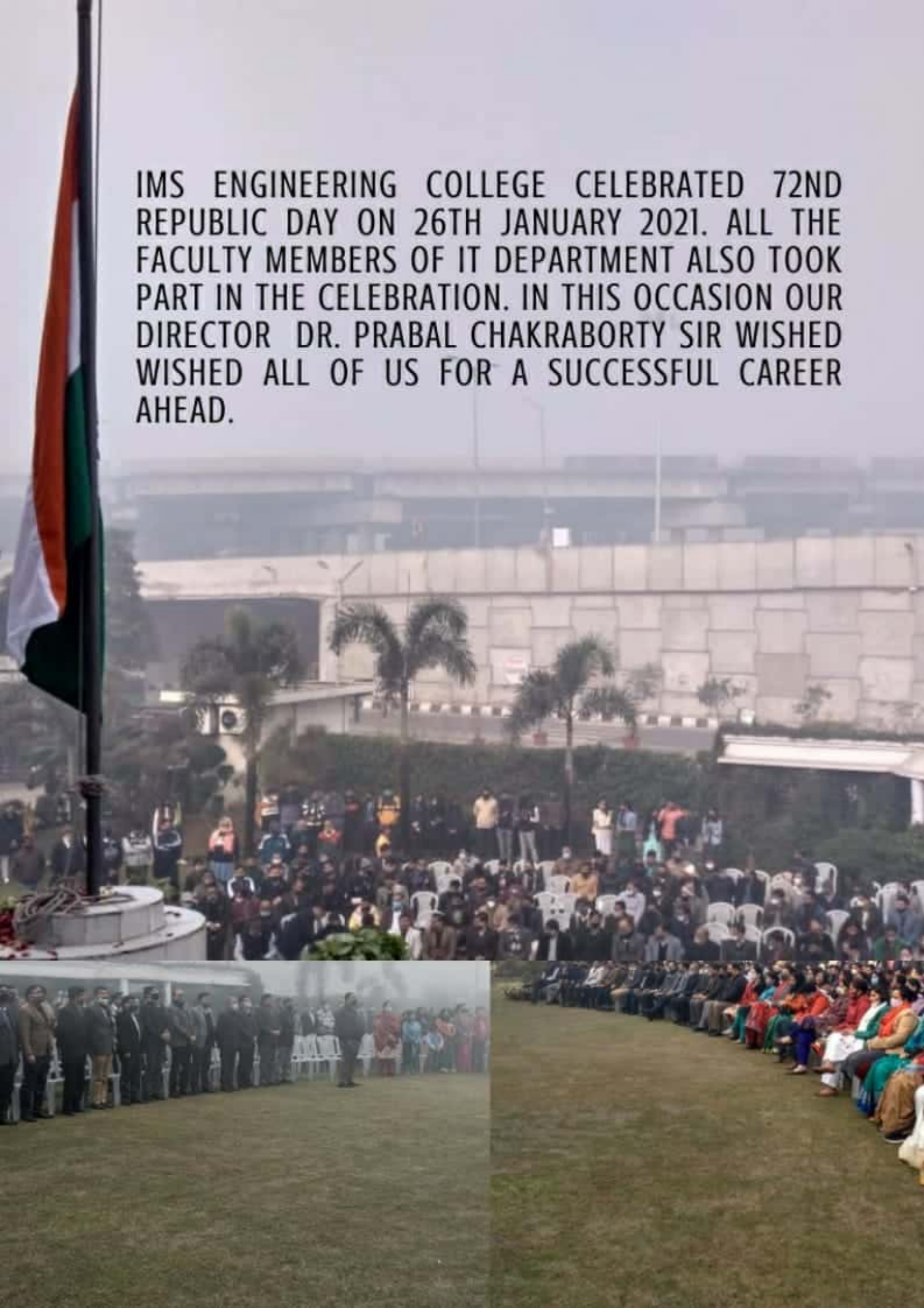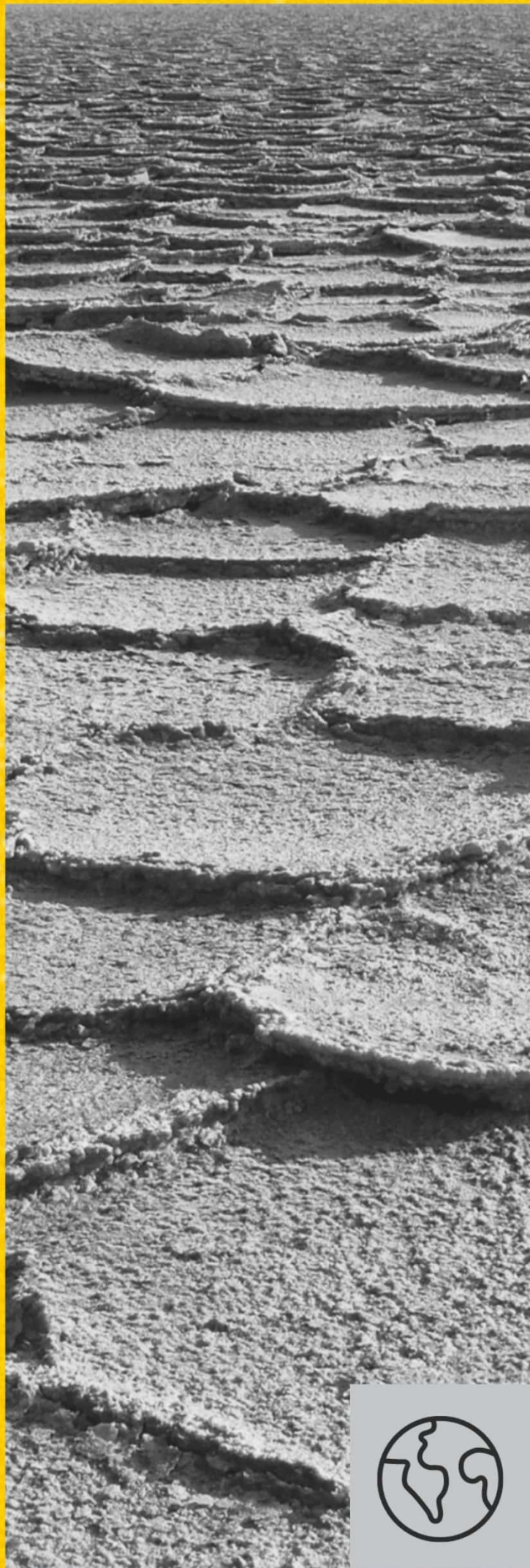
Under the banner of
IMS GHAZIABAD
GROUP OF
INSTITUTION

College level sports event for faculty members & staff was organised on 23rd January,2021. Most of faculty & staff members of IT Department participated in various sports events.
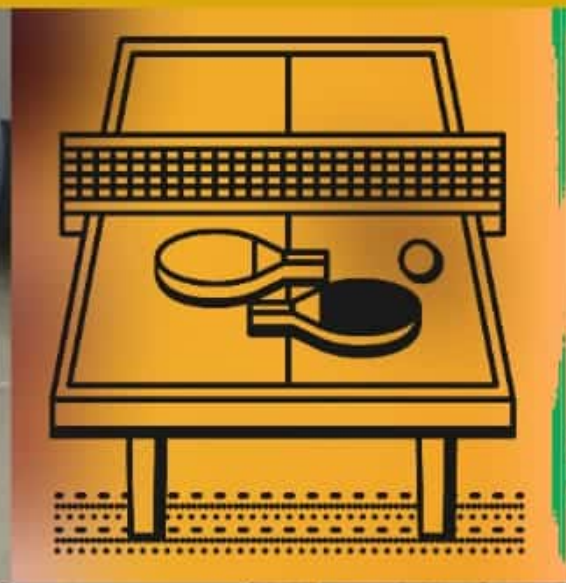
IMS ENGINEERING COLLEGE CELEBRATED 72ND REPUBLIC DAY ON 26TH JANUARY 2021. ALL THE FACULTY MEMBERS OF IT DEPARTMENT ALSO TOOK PART IN THE CELEBRATION. IN THIS OCCASION OUR DIRECTOR DR. PRABAL CHAKRABORTY SIR WISHED WISHED ALL OF US FOR A SUCCESSFUL CAREER AHEAD.

# जल संरक्षण में हमारी भागीदारी

**IMS Engineering College, Ghaziabad**
NAAC Accredited with 'A' Grade
Approved by AICTE, New Delhi & Affiliated to Dr. A.P.J. Abdul Kalam
Technical University, Lucknow UP
"Under the Banner of- IMS Ghaziabad-Group Of Institution"

A WEBINAR ON:

# जल संरक्षण में हमारी भागीदारी

BY: DR. SUMAN GUPTA
ASSISTANT PROFESSOR

**DEPARTMENT OF INFORMATION TECHNOLOGY**

JANUARY 30, 2021 @3:00 PM
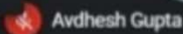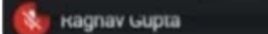**IMS ENGINEERING COLLEGE**
www.Imsec.ac.In

Join the meet using the link:
https://meet.google.com/lgx-ntxy-rxs

**IMS Engineering College**
NH-24, Adhyatmic Nagar, Ghaziabad-201015
Toll Free:18001028393, Landline: +91-1204940000, Web:- www.imsec.ac.in

Department of Information Technology organised webinar on "जल संरक्षण में हमारी भागीदारी".
The talk was delivered by Dr Suman Gupta, Asstt Professor, in which many faculty members and students participated. The event was on 30 January 2021.
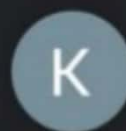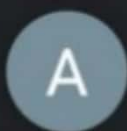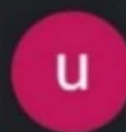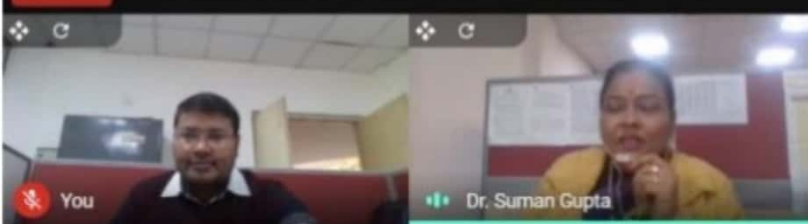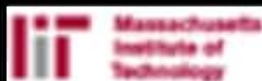
# IMS ENGINEERING COLLEGE HAS NOW COLLABORATED WITH EDX

Online MOOC platform (MIT- Harvard venture) with an approval of 500 academic licenses to conduct online certification courses for students & faculty members.

The available courses are from various renowned Universities across the world. Around 2800+ MOOC courses are there from more than 160 member Universities and they are on state of the art technologies encompassing various subject domains.

## THIS LICENSE APPROVAL HAS BEEN DONE ON 19 JAN 2021 FOR IMS ENGINEERING COLLEGE.

# STUDENTS'
## OPINION

# PRAVEEN BHATT
# IT, 4TH YEAR

## What will the future will be like?

I know you guys probably think the future will have cool robots that can do our homework and time machines that can see our past selves and teleporters that can transport us to many different places, and I think that those might exist too, but the Earth might even be destroyed by then. Because there are many bad things that are destroying us so it will be hard to live all the way there before humanity dies and the Earth begins to crumble. On Earth some of the things that are destroying us and that is making it hard for us to live is with all the pollution going on that we create, the viruses and infections that are spreading like wildfire, the natural disasters like tornadoes, earthquakes and many more, and the water and resource shortages in many places of the world. With all of this going on it will be hard for humanity to live up to where we have cool technology. Many things will have changed in the future, all the continents will have changed and switched places with other continents and we might have even evolved into some kind of alien that can breathe in space, or devolved back into gorillas and monkeys and apes again. The future will eventually sooner or later be destroyed, because we are creating pollution that is harming this planet and making global warming which makes the Earth warmer, and if it is too warm it won't be sustainable for life to live on. So in order to stop this from happening we have to make a difference just so we can live and humanity can live to see the future where we have cool robots and gadgets, and we can do this by using solar powered cars and buildings, and by riding bikes or walking instead of driving cars. Something else that could destroy and stop us from seeing the future is viruses and bacteria, small annoying little germs that you just can't see that get you sick or could even kill you if it is a really strong germ.

Germs are getting stronger by the minute and so is our technology, but germs are growing stronger much faster than the rate our technology is increasing, think about how many people have died, we lost so many people from Ebola and barely survived it, or the Spanish flu in 1918-1919 which made 20%-40% of the world get sick and also killed 50 million people and if a new even stronger virus or bacteria appeared we might not even survive. So far the war between human and germs, the score is 1 point for the germs and 0 for the humans. Natural disasters might also wipe us out, like tornadoes and tsunamis and these are all natural so we can't stop this from happening but we can probably stop them from reaching our houses and destroying them, maybe we could create a wall that will help us protect against it so we can live and see time machines and flying cars. Another major thing that will affect us is our supply of resources, we are running out of resources and we might even someday run out of food. With this already starting in many places all over the world we will soon fall. We can stop this by saving natural habitats that contain trees and water. With all these resources right now some people think they can use all the resources they want because they have it, but we still have to conserve for the people of tomorrow, for the people of the future. With all of these major problems out of the way we can let our generation see the future where there are crazy and amazing inventions.

# AKSHITA TRIVEDI
# IT, 3RD YEAR

## Purpose :-What makes you come alive?

We all want to live in what I call a universal assignment, the point at which your talents, skills, abilities and gifts intersect with a void or a need in the world around you.

That is, as best I can imagine, the true definition of purpose we should all aspire to seek. But like anything else in the journey of success, it isn't a fixed point that you arrive at and stay forever. The world changes too often. We change too often. It is the constant search for that point that keeps us on target.

Knowing your why is an important first step in figuring out how to achieve the goals that excite you and create a life you enjoy living (versus merely surviving!). Indeed, only when you know your 'why' will you find the courage to take the risks needed to get ahead, stay motivated when the chips are down, and move your life onto an entirely new, more challenging, and more rewarding trajectory. While there's no one pathway for discovering your life's purpose, there are many ways you can gain deeper insight into yourself, and a larger perspective on what it is that you have to offer the world.

### What are your innate strengths?
What are the things you've always been good at .Are you able to see patterns and opportunities amidst complexity? Are you creative, naturally adept at coming up with 'outside the box' solutions?

### Where do you add the greatest value?
Doing work that you're good at, but which you loathe, is not a pathway to fulfilment. That said, knowing your greatest strengths and where you can add the most value through the application of your education, skills, knowledge and experience—can help you focus on the opportunities, roles and career paths where you are most likely to succeed and therefore find the greatest sense of accomplishment and contribution.

### How will you measure your life?
People who don't stand for something, can easily fall for anything. Deciding how you want to measure your life means making a stand for something and then living your life in alignment with it.

Ultimately, living with purpose means focusing on things that matter most.

You can't be anything you want.
But you can be everything you are .

# VANSH TYAGI
# IT, 2ND YEAR

## टीकोत्सव " The Vaccination program of India "

आज तक हम बस किताबों में ही पढ़ते आए थे कि हिंदुस्तान त्योहारों का देश है , परंतु गत वर्ष हमने इसे प्रयोगात्मक रूप से भी अनुभव किया । कोरोना काल के चलते माननीय प्रधानमंत्री जी द्वारा प्रति सप्ताह अनेकों अनेक गतिविधियां देश की जनता द्वारा करवाई गई जो कि एक प्रकार से हर्षोल्लास और त्योहारों का ही प्रतीक दे रही थी । फिर चाहे वह जनता कर्फ्यू के दिन ताली और थाली बजाकर कोरोना वारियर्स का आभार व्यक्त करना हो , या फिर दीप जलाकर कोरोना काल के अंधकार में प्रकाश की अनुभूति करवाना हो । ऐसी प्रयोगात्मक सोच के धनी सिर्फ हम हिंदुस्तानी ही हो सकते हैं । और इस प्रयोग की जो सबसे विशेष बात रही वो ये थी कि सभी राजनीतिक पार्टी ने सभी वैचारिक मतभेद भुलाकर इसमें बढ़ चढ़ कर भाग लिया । आखिर यही तो है हम हिंदुस्तानियों की प्रथा । कठिन से कठिन परिस्थिति में भी सभी वैचारिक मतभेद भुलाकर हम कदम से कदम मिलाकर देश को चुनौतियों से मुक्त कर प्रगति की ओर ले जाना चाहते हैं । और अत्यधिक हर्ष का विषय तो यह रहा कि यह प्रयोग सिर्फ हम हिंदुस्तानियों द्वारा ही नहीं वरन देश विदेश के अन्य जन मनुसो द्वारा बढ़ चढ़कर सफल बनाया गया और अन्य देशों की सरकारों ने भी इसे सफल बनवाने में अपना पूर्ण सहयोग व समर्थन दिया । यही तो है हम भारत वासियों की विविधता और कूटनीतिज्ञता की पहचान । और सिर्फ यही नहीं माननीय प्रधानमंत्री जी के स्वप्न " आत्मनिर्भर भारत " को भी ना सिर्फ भारतवासियों ने वरन सम्पूर्ण विश्व ने इसे स्वीकारा और इसका परिणाम यह हुआ कि कई उद्योग धंधे जो की चीन में चल रहे थे उन्होंने चीन की मार से त्रस्त होकर भारत में व्यापार करने का निर्णय लिया जो की वाकई एक हर्ष का विषय है ।

अब धीरे धीरे भारत में कोरोना वायरस अपनी जड़ें छोड़ता हुआ प्रतीत हो रहा है परन्तु इसका अर्थ ये कतई नहीं है कि परिस्थितियां अब पहले जैसी होने को आई हैं । असली चुनौती तो अब प्रारम्भ होने को है चूंकि अब टीकाकरण कार्यक्रम प्रारम्भ हो चुका है और यह विषय हर्ष का भी है और सतर्कता का भी ।

इस विषय में बधाई के पात्र यदि कोई है तो वे है हमारे सम्मानित , कर्मठ और लगनशील वैज्ञानिक और डॉक्टर । परंतु कुछ राजनीतिज्ञ जिनकी राजनीतिक जमीन खिसकने को है वो इसे BJP का टीका कहकर हमारे वैज्ञानिकों का अपमान कर रहे हैं जो कि किसी भी दृष्टि में न्याय संगत नहीं है ।

वरन हमे तो खुश होना चाहिए कि हमने इतने कम समय और इतनी कठिन परिस्थितियों में स्वदेशी टीका निजात कर के सभी भारतीयों को गौरवान्वित होने का मौका दिया और हमारे माननीय प्रधानमंत्री जी को आत्मनिर्भर भारत की और अपना पहला कदम चलकर भी दिखाया ।

परंतु जिस प्रकार की राजनीति विपक्ष कर रहा है वो उचित नहीं है और ना ही न्याय संगत है । ये वो परिस्थिति है जिसमे सभी राजनीतिक दलों को सभी वैचारिक मतभेद भुलाकर एक साथ आकर इस टीकाकरण अभियान को सफल बनाना है ।

परंतु उचित एवं न्याय संगत बयान सत्ता पक्ष से भी नहीं आ रहे हैं । सत्ता धारियों का ये कहना कि हमें टीका लगवाने की आवश्यकता नहीं ये भी न्याय संगत नहीं है ।

जिस प्रकार की एकता एंव समर्थ्य हम लोगो ने करोना काल में दिखाया था उससे दोगुना एकता एवं सामर्थ्य हम लोगो को टीका करन अभियान में दिखाकर इसे सफल बनाना है ।

मेरा सभी राजनीतिक दलों से ये अनुरोध है कि वे सभी वैचारिक मतभेद भुलाकर आगे आएं और इस सफर को सफल बनाएं विशेषकर यदि यह पहल माननीय प्रधानमंत्री जी करें तो सोने पर सुहागा हो जाएगा । क्योंकि कोई सुरक्षित नहीं अगर हर कोई सुरक्षित नहीं ।

और करोना का टीका चूंकि अब उपलब्ध हो चुका है तो इसका मतलब ये कतई नहीं की आवश्यक रोक थाम जैसे मास्क , सामाजिक दूरी का पालन करना हम बंद कर दे क्योंकि कोई सुरक्षित नहीं अगर हर कोई सुरक्षित नहीं ।

तो इसी आशा के साथ अपनी कलम को विराम देता हूं कि सभी जन मानस और राजनीतिक दलों के नेता सभी राजनीतिक ऐंव वैचारिक मतभेद भुलाकर आगे आएंगे और टीकाकरण अभियान को सफल बनाएंगे ।

# UPCOMING EVENTS

## IAXIS 21, VNIT Nagpur, Technical Festival, Nagpur, Maharashtra, 26th - 28th February 2021

Link: https://www.knowafest.com/college-fests/events/2021/01/0708-axis-21-vnit-nagpur-technical-festival

Date:- 26 Feb. - 28 Feb. , 2021

## Webinar on: DATA AND AI:

Link:https://www.netcomlearning.com/webinars/

Date:- Feb 23, 2021
Time:- 1pm - 1:40pm EST

## Webinar on: APPLICATION DEVELOPMENT:

Link: https://www.netcomlearning.com/webinars/

Date:- Feb 11, 2021
Time:- 1pm - 1:40pm EST

## BizQuiz IIT Madras

Link: https://dare2compete.com/o/bizquiz-e-summit-2021-iit-madras-indian-institute-of-technology-iit-madras-144991

Date and Time:-20 Jan'21 12:00 AM IST to 14 Feb'21 7:05 PM IST

# QUESTIONS

1. What was the first emoticon ever used?
2. What technology is used to record cryptocurrency transactions?
3. What tool would you use to reduce the digital image size?
4. Why is Big Data important?
5. What kind of malware is designed to take advantage of a security hole before it is known?
6. Making a compressed digital archive might produce what type of file format?
7. What does acronym FOSS stand for?
8. What technology is used to make telephone calls over the Internet possible?
9. What is the term for text that automatically continues from one line to the next?
10. What does it mean to uncloud?
11. Which computer language is the most widely used?
12. Approximately, how much data exists in the digital universe today?
13. Which tech buzzword is closely related to Artificial Intelligence (AI)?
14. Which of the following is an important step towards the paperless concept?
15. What was the first cross-platform PDF software?

# ANSWERS

1. :-)
2. Blockchain
3. Crop
4. Because it may be analyzed to reveal patterns and trends
5. Zero-day exploit
6. ZIP
7. Free and Open-Source Software
8. VoIP
9. Word wrapping
10. Organize cloud storage
11. Java
12. 2.7 zetabytes
13. Machine learning
14. Digitizing
15. Able2Extract Professional

# Thank You

Send your articles at
itanium@imsec.ac.in

★

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