ITanium

Department of Information Technology

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(B. Tech IT , FINAL YEAR 2021)

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Rank - 3

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University
Rank - 8

Shraddha Katiyar
University
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SPECIAL EDITION:
HIGH-PERFORMANCE COMPUTING

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

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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 centre 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 Progam Outcomes (POs)

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) professionals 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 their professional capabilities through lifelong learning.

PROGRAM SPECIFIC OUTCOME (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

Dr. Prabal K. Chakravorty
Director

कुछ किए बिना ही जय - जयकार नहीं होती, कोशिश करने वालों की कभी हार नही होती ।

~Dr. Prabal K. Chakravorty

HOD'S Message

The Department of Information Technology is working hard to accommodate the ever varying aspirations of the younger generation because of increasingly changing demand and development in industries. We are putting our efforts to accommodate these aspirations by fine tuning the teaching learning process and with many other developmental activities.

Our goal is to maintain excellence in education and to get global recognition. It may sound idealistic, but this is precisely our long term goal. It is what motivates the work of everyone in the department. It inspires our teaching and research. It is this goal which fuels the faculty members to excel.

Dr. S N Rajan
HOD IT

Our approach reflects the educational needs of the 21st century. We focus on our students by providing them with an outcome based education and hands on experience through participation in innovative projects, research, training, and student forum activities etc. To keep abreast with the latest knowledge, we organize various activities related to interaction with experts from industries; encourage the faculty members to organize or to participate in faculty development programs, conferences, workshops etc. We believe in continuous development and even during the ongoing pandemic & lockdown period we strive to carry on the best efforts and endeavors towards the benefit of the students. Our University results and placement speaks about our excellence with many of our students bringing laurel to the college by getting highest ranking in university exams and huge number of students are placed in national & multinational companies, moreover our students' creativity and determination is evident by this continuous success in various fields.

IMS ENGINEERING COLLEGE

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

DEPARTMENT OF INFORMATION TECHNOLOGY

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 (2020-21):

Major Recruiters: IBM, TCS, Wipro, Accenture, Infosys, Genpact etc.
Highest Package: 7.5 L.P.A (IBM)
Companies Visited in Campus: 110(On/Pool Campus)
Placement Percentage: 80%

Industry MOU:

RedHat Academy
Tevatron Technology
HANTECH
ICT Academy IIT-K Prutor

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)

IMS ENGINEERING COLLEGE

IMS

GHAZIABAD

GEMS OF OUR DEPARTMENT

CONGRATULATIONS TO OUR UNIVERSITY TOPPERS

INFORMATION TECHNOLOGY : 2021

Kaajal Khanna
UNIVERSITY RANK 3

Palak Kapoor
UNIVERSITY RANK 8

Shradha Katiyaar
UNIVERSITY RANK 9

QUOTABLE QUOTES

"Your time is limited, so don't waste it living someone else's life. Don't be trapped by dogma- which is living with the results of other people's thinking."

—Steve Job

"Curiosity about life in all of its aspects, I think,

is still the secret of great creative people."

— Leo Burnett

"Don't settle for what life gives you; make life better and build something."

--Ashton kutcher

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ARTICLES

UNDERSTANDING HIGH PERFORMANCE COMPUTING

Mr. Shubham Vyas
Assistant Professor
IT Department

High-performance computing is the ability to process data and perform complex calculations at high speeds. To put it into perspective, a laptop or desktop with a 3 GHz processor can perform around 3 billion calculations per second. While that is much faster than any human can achieve, it pales in comparison to HPC solutions that can perform quadrillions of calculations per second.

Why is high-performance computing important?

It is through data that groundbreaking scientific discoveries are made, game-changing innovations are fueled, and quality of life is improved for billions of people around the globe. HPC is the foundation for scientific, industrial, and societal advancements. As technologies like the Internet of Things, artificial intelligence, and 3-D imaging evolve, the size and amount of data that organizations have to work with are growing exponentially. For many purposes, such as streaming a live sporting event, tracking a developing storm, testing new products, or analyzing stock trends, the ability to process data in real-time is crucial. To keep a step ahead of the competition, organizations need lightning-fast, highly reliable IT infrastructure to process, store, and analyze massive amounts of data.

How does high-performance computing work?

To build a high-performance computing architecture, compute servers are networked together into a cluster. Software programs and algorithms are run simultaneously on the servers in the cluster. The cluster is networked to the data storage to capture the output. Together, these components operate seamlessly to complete a diverse set of tasks.
To operate at maximum performance, each component must keep pace with the others. For example, the storage component must be able to feed and ingest data to and from the compute servers as quickly as it is processed. Likewise, the networking components must be able to support the high-speed transportation of data between compute servers and the data storage. If one component cannot keep up with the rest, the performance of the entire high-performance computing infrastructure suffers.

High-performance computing use cases

➤Research labs. HPC is used to help scientists find sources of renewable energy, understand the evolution of our universe, predict and track storms, and create new materials.
➤Media and entertainment. HPC is used to edit feature films, render mind-blowing special effects, and stream live events around the world.
➤Oil and gas. HPC is used to more accurately identify where to drill for new wells and to help boost production from existing wells.
➤Artificial intelligence and machine learning. HPC is used to detect credit card fraud, provide self-guided technical support, teach self-driving vehicles, and improve cancer screening techniques.
➤Financial services. HPC is used to track real-time stock trends and automate trading.
➤HPC is used to design new products, simulate test scenarios, and make sure that parts are kept in stock so that production lines aren't held up.
➤ HPC is used to help develop cures for diseases like diabetes and cancer and to enable faster, more accurate patient diagnoses.

APPLICATIONS OF HIGH PERFORMANCE COMPUTING

Shivank Chauhan
3rd Year IT

You may have heard of supercomputers. Powerful machines that use thousands of processors to tackle some of life's greatestmysteries. High-performance computingor HPC was traditionally used by brilliant scientists at universities and government institutions, but today as HPC becomes more mainstream businesses are getting a piece of the action, too.

What is High-Performance computing?

High-Performance Computing (HPC) refers to the practice of aggregating computing power in a way that delivers much higher power and is more efficient than traditional computers and servers. HPC or supercomputing is like everyday computing, which is more powerful. It is a way of processing a huge amount of data at very high speedsusing multiple computersand storage devices.HPC makes it possibleto explore and find answers to some of the world's biggest problems in science, engineering, and business.
Today, HPC is used to solve complex, performance-intensive problems, and now organizations are increasingly moving HPC workloads to the cloud.

How does HPC work?

Some workloads, such as DNA sequencing, are simply too immense for any single computer to process. HPC or supercomputing environments address these large and complex challenges with individual nodes working together in a cluster or connected group to perform massive amounts of computing in a short period of time. Creating and removing these clustersis often automated in the cloud to reduce costs.
It can be run on many kinds of workloads, but thetwo most common are:
•Embarrassingly parallelworkloads
•Tightly coupled workloads.

Why is HPC important?

As HPC has been a critical part of academic research and industry innovation for decades. HPC helpsengineers, data scientists, designers, and other researchers solve large, complexproblems in far less timeand at less cost than traditional computing.

PERFORMANCE EVALUATION OF HIGH PERFORMANCE COMPUTING

Utkarsh Sharma
3rd Year IT

"A child'sPlayStation today is more powerfulthan a military supercomputer from 1996".
— Erik Brynjolfsson

As world is moving forward technology is just keep getting better since there is always a place for improvement in almost every piece of technology such as making things moreefficient, more compatible, more precise, faster, etc. There is no end. This addresses the need of supercomputing.

But what is supercomputing?

Supercomputing technology comprises supercomputers, the fastest computers in the world. Supercomputers are made up of interconnects, I/O systems, memory,and processor cores.
Unlike traditional computers, supercomputers use more than one central processing unit (CPU). These CPUs are grouped into compute nodes, comprising a processor or a group ofprocessors—symmetric multiprocessing (SMP)—and a memory block. At scale, a supercomputer can contain tens of thousands of nodes. With interconnect communication capabilities, these nodes can collaborate on solving a specific problem. Nodes also use interconnects to communicate with I/Osystems, like data storage and networking.

What is the need of supercomputers?

Now you may be wondering, do we need that much high computing power right now for day to day work then the answer is not, as an individual we don't need supercomputer but as government organization like military for testing nuclear weapons, as a space organization like NASA to test all the possibilities that can occur during a space mission like going to mars and come back safely, for scientific research like predicting climate change by running a gigantic amount of conditions so we are prepared for any situation in the coming future even how worse it is.
And the end of the spectrum, molecular interaction between cells and drug compounds are also extremely complex just on the nanoscale and computer model of these interactions allow us to see the actual mechanism of how diseases make us sick and how different medicines could interrupt those interactions, etc.

Countries in the race.

1.   Japan's Supercomputer Fugaku, built by Fujitsu and installed at the RIKENCenter for Computational Science.
2.   The U.S.' Summit supercomputer, built by IBM and housed at the Energy Department's Oak Ridge NationalLaboratory.

3.   The U.S. Sierra supercomputer, built by IBM, run by the National Nuclear Security Administration, and housed at the Energy Department's Lawrence Livermore National Laboratory.
4.   China's Sunway TaihuLight, a system developed by the country's National Research Center of Parallel ComputerEngineering &
Technology. It's installed at the National Supercomputing Centre in Wuxi.

ALUMINI SPEAKS

Pritish Rastogi
IT(2011-15) Batch
Test Lead
IBM Consulting,India

It has been more than 6 years since i got out of the IMSEC but it seems only yesterday. All the memories are still fresh in my mind. The 4 years spent in IMSEC are one of the best times.
I really like to thanks my faculty member, who are always there to help me from day one when i joined the college to last day in the IMSEC.
The IMSEC gave the opportunity to learn & grow and helped me achieving my target.
To all the fresher, always focus on goal you want to achieve in life, these 4 years of commitment is long way to go. You will face many ups and downs but don't let yourself be discouraged by that, try harder & harder till you achieve what you have been waiting for.

Vidushi Trivedi
IT(2013-17) Batch
Senior Software Engineer
QA Infotech, Noida

Finding the right path to success at the right time is really very important and for that way I had selected IMdly environment, the systematic approach towards imparting education at IMSEC made me a competent individual.The wide range of activities- both curricular and co-curricular- along and the support from Faculty members really very helpful for my future. The faculties are really very kind and approachable when any need arises.
I got a huge exposure and will able to enhance my skills. The learning here is not restricted towards theoritical knowledge only, the practical aspects are taken into equal consideration.
I am really blessed to be a part of this organisation. Advice to my juniors who are currently in the path of this 4 years graduation program, Do your best. These years are the most precious years of your life, learn a lot, grow your skills and explore as you have best faculties to help you to get the gem out of you.
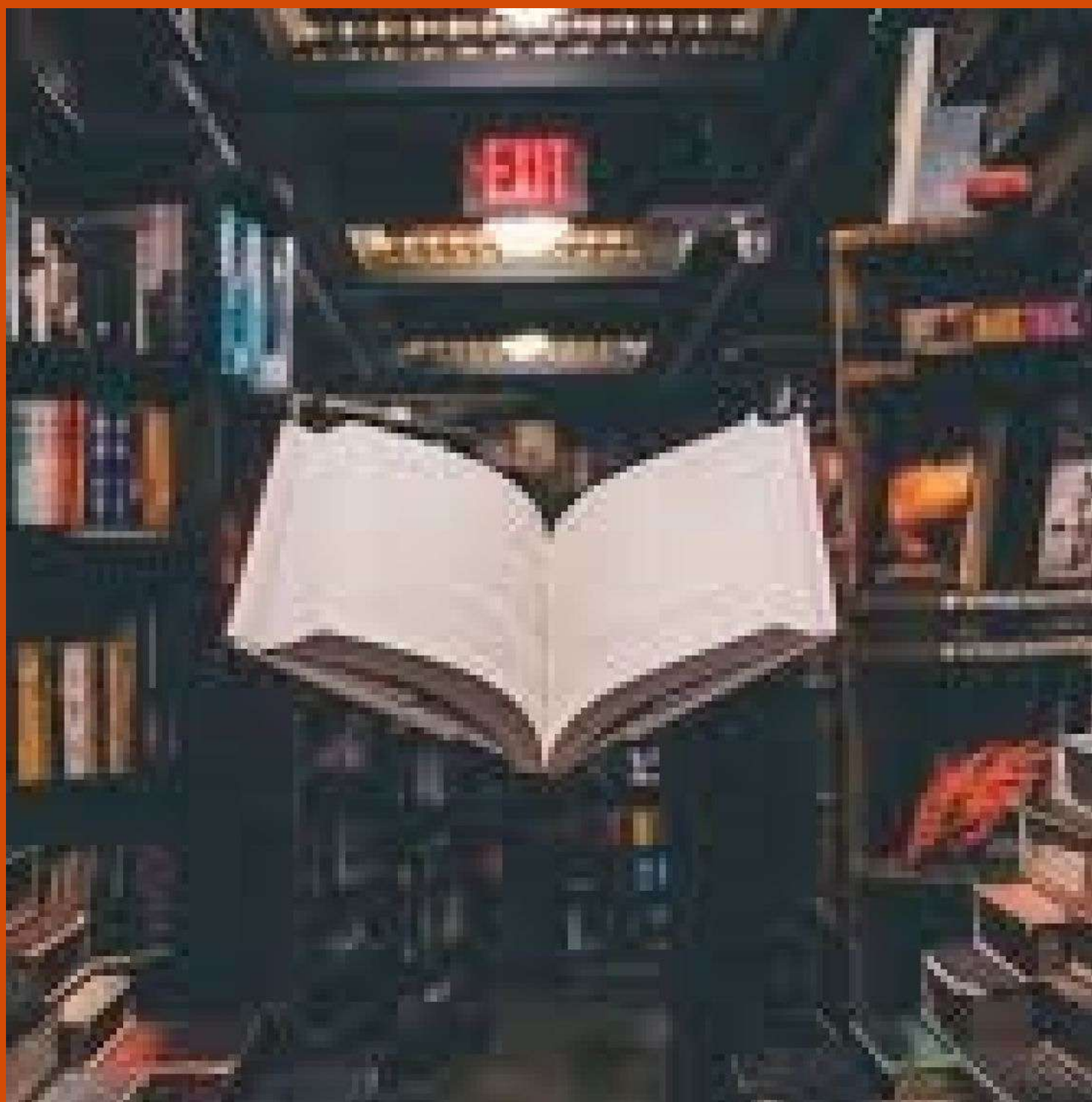All the best for your future endeavours!!!

Shubham Jain
IT(2015-19) Batch
Management Trainee, Genpact, Gurugram

It would be difficult to sum up four years of IMSEC in just few lines. I must say that the learning and exposure which college gives is just commendable. The faculty is just amazing and they stand by you from the first day to the end of placement days.

The best part of college is that they give you internships and placements in best reputed organisations. During the most crucial time of placements, the faculty and placement team provides students with lot of preparatory sessions so that they come up with their best. I feel IMSEC is the wholesome basket for one who is looking to pursue Bachelors in Technology and I'll definitely cherish these moments forever.

LIT
DROPS

~दीक्षा श्रीवास्तव

3rd year

IT-1

चेहरा

उसका चेहरा जैसे एक रहस्य
और इतना रहस्य
मानो रहस्य की गर्त खोजने लगो
तो पूरा संसार ही नज़र आए...
पर हाथ कुछ भी न आए....
मैंने तो उन रहस्यों
को कुरेदना ही छोड़ दिया...
सोचा चेहरे के रहस्य में ही तो
चेहरे की लावण्यता है....
आँखें इतनी गहरी और अनजान..
जैसे देख ली थी इन्होंने पूरी धरती और आसमान..
इन आँखों ने अब छोड़ दिया था हँसना....
लगता है भूल गयीं थी बिजली की तरह चमकना....

जिनके चमकते ही जुगनू के जलने
का हो जाया करता था धोखा...
उन आँखों ने अब केवल ख़ामोशी था सीखा...
चेहरे की लकीरें उभारने लगी थीं दरारें
समय के पहिए से जो हुई थीं तकरारें
होंठ गुलाबी जो कहते थे कहानी....
जम गये थे ठिठुरकर जैसे पहाड़ों का पानी
अब उन अधरों ने छोड़ दिया था हँसना..
जैसे छुपाने लगे हों अनदेखा सा सपना...
हँसी ऐसी मानों दूर मंदिर में बजती हो घंटियाँ
खनकती हो ऐसे मानों हाथों में हज़ारों चूड़ियाँ..
जिसे सुन हर भक्त के मन में
जाग जाए देवी दर्शन की लालसा...
जाग उठे मन में उत्साह,
उमंग और मिलन की अभिलाषा...
बदल रहा था सब कुछ,
पर अभी भी कहीं बचा था जीवन कुछ..
उठाकर आईना जब देखा उसने...
दौड़ते हुए जिंदगी के सफर में...
बदल गया था बहुत कुछ...
बदले नहीं थे तो बस वह पल कुछ...
जो कहीं चेहरे की दरारों में
संजोए रखे थे वे पल कुछ....

~वंश त्यागी
3rd year
IT-2

THE COFFEE

उठो साहिल शाम के 6 बजने को हैं । कुछ इस तरह मेरी आज शाम की नींद खुली , खुली या तोड़ दी गई । हफ्ते भर की थकान मिटाने का एकमात्र जरिया है Sunday दोपहर की नींद । लेकिन शायद शादी के बाद आराम नाम का शब्द पुरुषों की dictionary से खत्म हो जाता है । परिवार की जिम्मेदारियां और फ़र्ज़ के बोझ इतने बढ़ जाते हैं कि उसे अपने सब ख्वाहिशें अपने परिवार की खुशियों के लिए कुर्बान कर देनी पड़ती है । अब इसे फ़र्ज़ कहें या शिखा के प्रति मेरा निस्वार्थ प्यार कि हर Sunday शाम मैं उसे coffee पर लेकर जाता हूं। शिखा my wife. अभी 1 साल ही हुआ था हम दोनों की शादी को और इस एक साल में हम एक दूसरे को इतनी अच्छी तरह जान गए हैं कि अब लगता ही नहीं कि हमारी arrange marriage हुई थी । यही सब कुछ सोचता हुआ मैं बिस्तर से उठा और coffee पर जाने के लिए तैयार होने लगा । बाहर निकला तो महसूस हुआ कि आज की शाम पिछली शामों से कुछ अलग सी है । बसंत का मौसम , ठंडी - मीठी बहती हवा , चारों और बर्फ से ढकी हुई वादियां एहसास करा रही थी मानो मैं शिमला की सड़कों पर नहीं बल्कि कहीं जन्नत में सैर कर रहा हूं । मौसम का ऐसे ही लुत्फ उठाते हुए आखिरकार हम coffee shop पर पहुंच ही गए । आम तौर पर Sunday में coffee shop

पर काफी भीड़ रहती थी मगर आज हमे बड़ी आसानी से table मिल गई थी । मेरे सामने वाले table पर ही एक lady बैठी हुई थी जिसे देखते ही मुझे लगा कि मानो उससे मेरा कोई बहुत पुराना बहुत गहरा संबंध है । अब क्योंकि उसकी जुल्फों ने उसके हसीन चेहरे को ढक रखा था इसलिए यह अंदाजा लगा पाना मुश्किल था कि इस जुल्फ के जाल के पीछे वह हसीन चेहरा किसका है ? बड़ी कोशिश के बाद जब मैं उसके चेहरे को पहचानने में कामयाब हुआ तो मैं एक वक्त को सिहर सा गया । मेरे ख्वाबों में खो चुकी मेरी स्मृति मेरे सामने बैठी थी। स्मृति ! मेरा पहला प्यार । इसी coffee shop पर हम पहली बार मिले थे , यहीं हमारी दोस्ती हुई , यहीं वो दोस्ती प्यार में बदली और यहीं हम दोनों ने एक दूसरे को अपना दिले हाल बयां किया और ज़िन्दगी भर साथ रहने की कसमें खाई और आज 7 साल बाद मैं उसे देख रहा था । एक बार दिल में ख्याल तो आया कि उठ कर जाऊं उसके पास और कुछ देर बात करूं मगर फिर मुझे लगा कि परिस्थितियां इस वक्त इस विषय के अनुकूल नहीं है । बारहवीं कक्षा के बोर्ड परीक्षाओं की तैयारियों में जुटा हुआ था मैं उस दौरान जब पहली बार स्मृति से मेरी मुलाकात हुई । हर शाम हॉस्टल से हम लोग सभी दोस्त यहां आया करते थे थोड़ी ताज़गी के लिए । एक दिन मैंने पेड़ के नीचे bench पर बैठी हुई स्मृति को देखा था और मानो देखते ही मुझे लगा कि आज मेरी तलाश पूरी हो गई । एक हाथ में copy और pen लिए गणित के प्रश्न हल कर रही थी मगर उसके हाव भाव देख लग रहा था कि शायद प्रश्नों का डर

उसे सताए हुए था । मैं उसके पास गया और अपना परिचय दिया और उसके जवाब में उसने अपना परिचय दिया । किस्मत का खेल तो देखिए वह भी हमारे school की ही थी । दसवीं बोर्ड परीक्षाओं की तैयारियों में जुटी हुई थी वो । मैंने उसे कहा अगर किसी भी विषय में कुछ आवश्यकता हो तो मैं उसकी सहायता अवश्य करूंगा । आखिर मैंने top किया था 10th में तो ये आत्म विश्वास तो लाजमी तौर पर रहना ही था । फिर तो हमारा रोज मिलना होने लगा रोज शाम में उसके गणित के प्रश्न हल किया करता था । धीरे-धीरे हमारी दोस्ती कब गहरी होती गई ना मुझे पता चला और ना उसे । कभी-कभी तो वो मुझे ऐसे निहारा करती थी जैसे कोई पानी में चांद की चांदनी को निहारता है । अब शायद ये दोस्ती प्यार में बदल रही थी और बोर्ड परीक्षा खत्म होते होते हम दोनों को इस बात का एहसास हो चुका था । बस अब बारी थी हम दोनों में से किसी एक को इसकी पहल करने की । परंतु हम दोनों इसी दुविधा में थे और दोनों इस बात को समझ

भी थे । फिर एक दिन मैंने थोड़ी हिम्मत करके ये फैसला लिया कि आज मैं अपना दिल ए हाल स्मृति के सामने बयान कर दूंगा । शायद यही बात उसने भी मेरे बारे में सोची होगी क्योंकि पहले उसी का ही फोन आया था कि चलो आज coffee पर चलते हैं । ठीक शाम 5 बजे मैं उसी coffee shop पर पहुंच गया जहां हम पहली बार मिले थे । हम दोनों बैठे , बातें की coffee पी फिर उसके बाद उसने कहा कि चलो अपनी आंखें बंद करो तुम्हारे लिए एक surprise है । मैंने उत्सुकता से आंखें बंद कर ली । लगभग 1 मिनट बाद उसने कहा कि चलो अब अपनी आंखें खोलो । मैंने ज्यौं ही अपनी आंखें खोली मेरे चेहरे पर एक बड़ी सी मुस्कान खिल आई । एक बड़ा सुंदर सा Greeting Card और उसके साथ एक गुलाब का फूल दिखाते हुए वो बोली साहिल " I Love You " . वो सब देख मेरी खुशी का ठिकाना ही नहीं रहा , तभी वो बोली अभी एक surprise और बाकी है । तभी उसने अपने pocket से एक box निकाला और मुझे दिया और बोली देख कर बताओ कैसा लगा मेरा surprise . उसमे एक घड़ी थी । उसने कहा खूबसूरत है ना , मैने कहा लेकिन तुमसे ज्यादा नहीं । ये सुनते ही वो शर्मा गई । मैंने भी उससे कहा कि " I Love You Too " लेकिन मैं तुम्हारे लिए कोई gift नहीं लाया । तो उसने कहा कि तुम्हारा प्यार है मेरे लिए सबसे बड़ा gift है और एक बात हमेशा ध्यान रखना कभी भी कोई महंगा gift सच्चे प्यार से तोला नहीं जा सकता । ये सुनकर मेरी आंखो में खुशी के आंसू आ गए । ऐसे ही हमारा प्यार समय के साथ और गहराता गया । Engineering करने के बाद पापा ने विदेश से MBA करने का फरमान सुना दिया । मैं खुश था लेकिन मुझे स्मृति से दूर जाने का गम भी था । ये बात मैने स्मृति को बताई तो वो बहुत खुश हुई । अब घर वालो और स्मृति की खुशियों के लिए मुझे जाना पड़ा । इस दौरान मेरा स्मृति से पूरी तरह संपर्क टूट गया । दो साल बाद जब मैं वापस India आया तो मैंने स्मृति को ढूंढने की बहुत कोशिश करी उस से संपर्क करने की बहुत कोशिश की परंतु में असफल रहा । इसी दौरान घर वालों ने मेरा रिश्ता शिखा के साथ तय कर दिया मैंने भी इसे किस्मत का खेल समझकर स्वीकार कर लिया और स्मृति को एक सुहाना ख़्वाब समझ कर भूल गया । लेकिन आज एक बार फिर मेरा वो ख्वाब , हकीकत के रूप में मेरे सामने था और इत्तेफाक तो देखिए आज मैने स्मृति की दी हुई ही घड़ी पहनी हुई है । एक बार मन तो हुआ कि सब कुछ छोड़ वापस उसके पास वापस चला जाऊं । लेकिन मुझे इस बात का एहसास हुआ कि अब मैं जिंदगी की दौड़ में बहुत आगे , बहुत आगे निकल आया हूं और अब वापस पीछे मुड़कर देखने का कोई तात्पर्य ही नहीं ।
तो ये थी मेरी प्रेम कहानी जो कि coffee से शुरू हुई और coffee पर ही आकर खत्म हुई

~भारत वर्मा
3rd year
IT-1

वो भी क्या दिन थे.....

वो भी क्या दिन थे
जब हम इश्क़ किया करते थे...
वो और मैं स्कूल मे साथ पढ़ा करते थे
हम उनको छुप कर देखा करते थे और
वो हमसे नजरे चुराया करते थे
जानते वो भी थे
हमारी प्यार की नज़र को लेकिन
फिर भी वो हमसे पर्दा किया करते थे
क्योंकिं वो शर्माते बहुत थे इसीलिए बाते भी कम किया करते थे
और ना जाने कब हम दोनों इतना मिल गए
कि कभी वो मेरा तो कभी हम उनका इंतज़ार करने लगे थे
फिर थोड़ी सी देर होने पर झगड़ा करते थे
फिर भी दोनों एक-दूसरे से प्यार बहुत करते थे
उस प्यार के लिए ना जाने कितनो के लिए अच्छे थे
तो ना जाने कितनो के लिए बुरे थे
पर जैसे भी थे
एक-दूसरे के लिए सच्चे थे
और वो भी क्या दिन थे ...
जब हम इश्क़ किया करते थे...

~उर्मिस अग्निहोत्री
4th year
IT-2

आधुनिकता

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।।

NEWSWORTHY

CURRENT AFFAIRS

1.The Ministry of Civil Aviation launched "Krishi Udan 2.0 scheme" on October 27, 2021. Key Points Under "Krishi Udan 2.0 scheme", cargo-related infrastructure will be built in airports of hilly, tribal, and north-east regions. Such infrastructure will help in assisting farmers to transport agriculture products.

2. Ministry of Micro, Small & Medium Enterprises launched the "SAMBHAV National Level Awareness Programme, 2021" in new Delhi on October 27, 2021. Key Points With the launch of programme, Union Minister of MSME Narayan Rane called for engagement of youth in promoting entrepreneurship, which in turn will lead to the economic development of India.
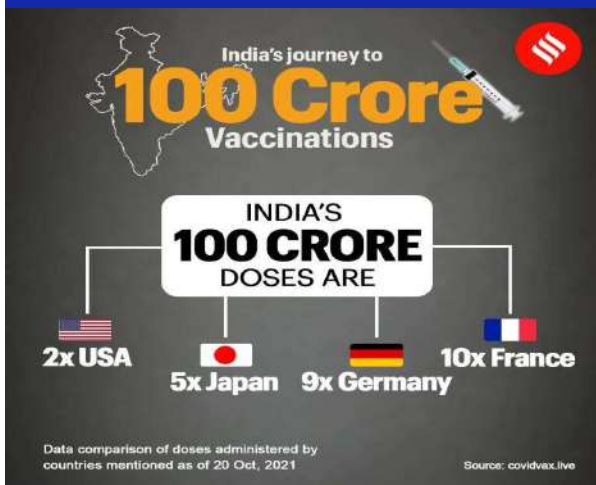
3. On October 26, 2021, Prime Minister of Canada Justin Trudeau reshuffled his cabinet. He has appointed Indian-origin Canadian politician Anita Anand as new Defence Minister of Canada. Key Points Prime Minister reshuffled his cabinet after his Liberal Party returned to power in snap polls, Furthermore, there were calls for major military reforms.

4.First case of Zika Virus was reported from Kanpur in the state of Uttar Pradesh on October 24, 2021. What is Zika Virus? Zika virus is a member of the Flaviviridae virus family. It is spread by daytime-active called named "Aedes mosquitoes" like A. aegypti and A. albopictus.

India's journey to 100 Crore Vaccinations
INDIA'S 100 CRORE DOSES ARE
2x USA
5x Japan 9x Germany
10x France
Data comparison of doses administered by countries mentioned as of 20 Oct, 2021
Source: covidvax.live

5. India crossed another significant milestone in its fight against the covid-19 pandemic on October 21, 2021. It touched the mark of 100 crore Covid vaccinations including the first as well as second doses.
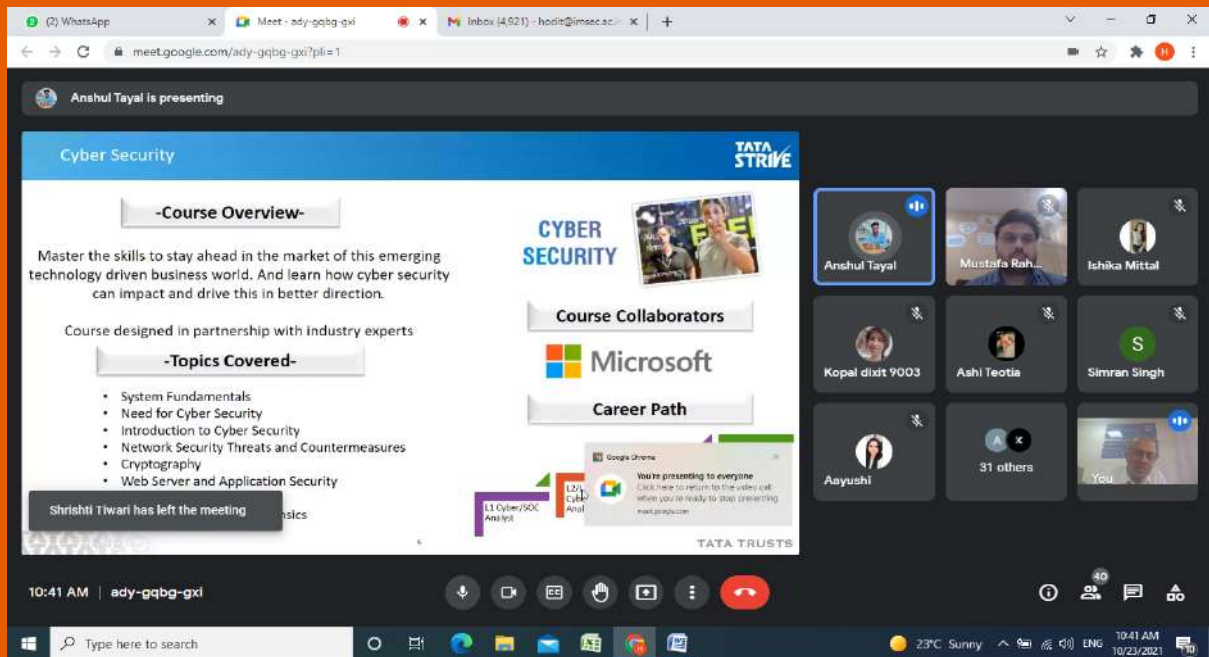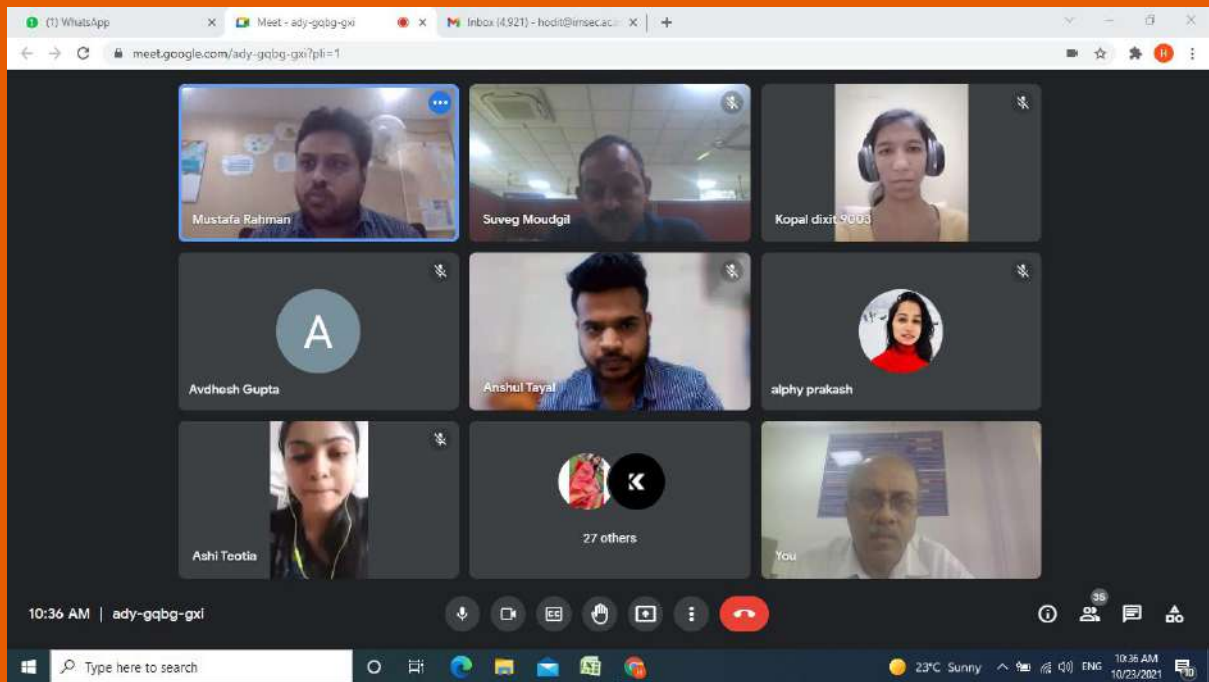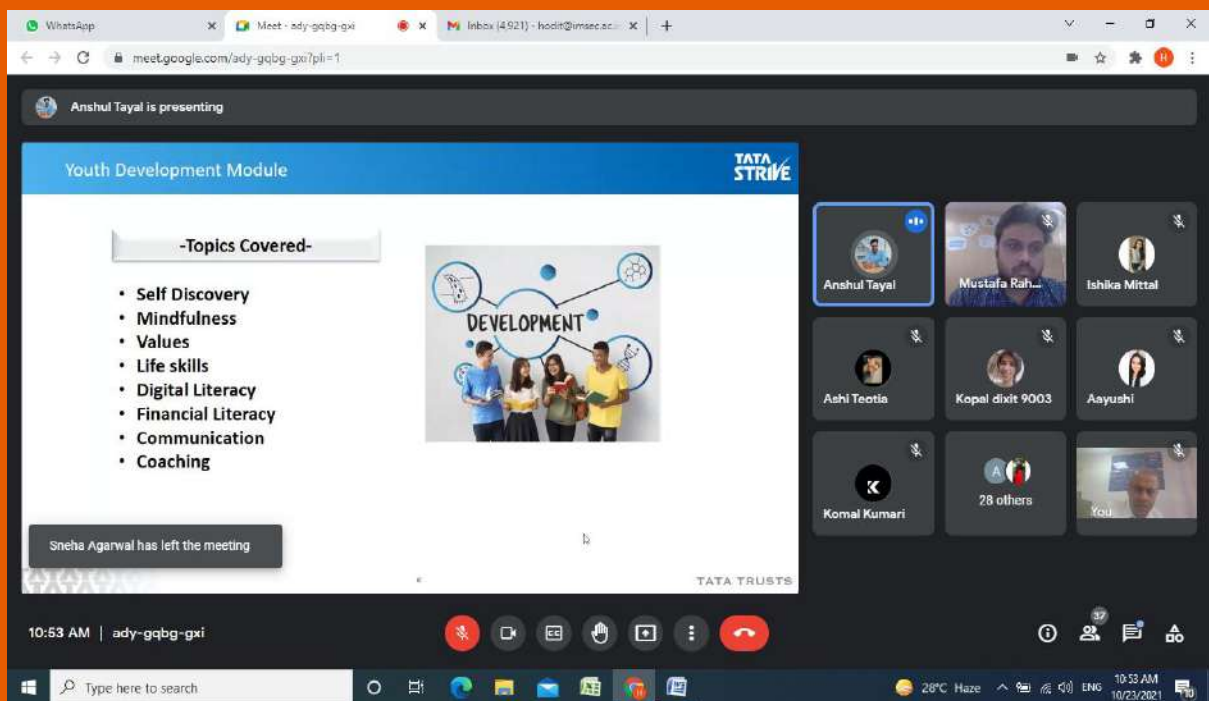
DEPARTMENT NEWS

Department News

1. Three days visit of NBA (National Accreditation Board) team in the IT an MBA Department of our college for accreditation. The visit was on 8-10 October 2021.

2. Department of Information Technology of IMS Engineering College, in collaboration with TATA STRIVE, has initiated specialized training program on CYBERSECURITY for the final year FEMALE students of B.Tech IT/CSE/ECE. It is an initiative from TATA TRUST to make the female students employable in the area of Cyber Security. Many female students have enrolled themselves for the program which is being offered free of cost. The orientation program was held on 23-10-2021

3. Skill Enhancement Program (Session 2020-21)

Special Skill Enhancement Program of 40 hours duration, for the students of session 2020-21, was conducted in the month of August-September 2021. The Courses and the faculty members conducted the program were:

a."Machine Learning & it's Applications" by Dr. Amreen Ahmad.

b."Core Jave & it's Applications" by Mr. Pavan Sharma.

c."Object Oriented Programming Using C++ " by Ms. Shilpa Singhal.

d."Foundations of C Programming " by Ms.Sonal Saurabh.

4. Participation in FDP program:

1) Ms. Shilpa Singhal : Participated in Five days FDP (2 August to 6 August 2021) on "Emerging Trends in OFC Technology", organised by National Institute of Technical Teachers Training and Research (NITTTR)/AICTE program.

2) Ms. Shilpa Singhal: Participated in five days FDP (6 September to 10 September 2021) on "Foundation of Data Science & its Applications", organised by Indira Gandhi Delhi Technical University for Women.

3) Dr. Upasana Pandey : Participated in five days FDP (6 September to 10 September 2021) on "Foundation of Data Science & its Applications" organised by Indira Gandhi Delhi Technical University for Women.

4) Ms. Sonal Saurabh: Participated in five days FDP (23 to 27 August 202) on "Signal Processing & Machine Learning towards Engineering Applications" organised by North Eastern Regional Institute of Science & Technology (NERIST).

5. Paper Publication:

1) <u>Mr. Updesh Kumar Jaiswal</u> presented and published a research paper of title "Test Cases generation and optimisation for covering all Independent Path of Control Flow Graph in Basis Path testing by using PSO with Improved Fitness Function" in IC3-2021 (Scopus indexed) international conference in September, 2021.

2) <u>Dr. Upasana Pandey</u> has jointly presented and published a research paper of title "Intelligent and Adaptive Web Page Recommender System", International Journal of Web Services Research (IJWSR), Vol 8, issue 4, Pages 27-50, Publication Date:01/10/2021, Publisher-IGI Global (SCI Indexed) DOI: 10.4018/IJWSR.2021100102.

6. Following faculty members from Information Technology Department participated in 4 weeks Faculty and Staff training program on Python Programming, organized by dept IT ,CSD and CSE department at IMSEC from 2nd August - 27th August 2021.

   Dr Suneet Shukla
   Dr Suveg Modgil
   Dr Upasna Pandey
   Dr. Amreen Ahmad
   Ms. Shilpa Singhal
   Ms. Sonal Saurabh
   Mr. <u>Updesh Kumar</u>Jaiswal
   Dr. Ajay Kumar Sahu
   Mr. Pavan Sharma

7. Participation in "Orientation Training Programme for Mentors of UP State", Organised by National Initiative for Technical Teachers Training (NITTT) & AICTE.

   Following faculty members from Information Technology Department participated in One Week Online Orientation Training Programme (OTP) for Mentors from 27th Sept. to 01st Oct 2021.

Dr S N Rajan (Professor & Head)
Dr Suneet Shukla (Associate Professor)
Dr Suveg Modgil (Associate Professor)
Dr Upasna Pandey (Associate Professor)

8. Patent titled "An Artificial Intelligence and Secured HTTP based Marketing Management Tool and Method Thereof" has jointly been granted by Controller General of Patents, Design & Trade Mark, Govt. Of India, to Dr Ajay Kumar Sahu (Asstt Professor, Department of IT). It was a joint application and Dr Sahu was one of the members who received the grant. .

Patent Application No. 202111050031 A
Journal No. 46/2021

9. Mr Manas Agarwal, B.Tech (IT) final year student participated in the National Level Redhat Contest and secured National Level 5th Position. Sr. Manager from Redhat Gurugram, Mr Sanjay Srivastava came (on 20th October 2021) to give some prize (Apple Tab ,T-Shirt and Certificate) to Mr Manas. Congratulations to Mr Manas Agarwal.

10. IMS Engineering College organised three days Entrepreneurship Awareness Camp (EAC) in association with NIESBUD (National Institute for Entrepreneurship and Small Business Development) under Ministry of Skill Development and Entrepreneurship. Program convener Dr S N Rajan and the MSME Team members motivated the students to take part in large scale. Out of total 108 participants, 18 students were from IT Department. This EAC program is under the scheme of NSTEDB which is under DST and EDII Ahmadabad. Mr Updesh Jaiswal, College MSME Committee member coordinated with the students. The program was inaugurated by the college Director Dr Prabal K Chakraborty.

11. Student Industrial Visit: On 1st of November 2021, students of IT Department, along with students of CSE, EC & ME departments visited Tevatron Technologies and StemRobo at Sector-63, Noida. These companies are the ICT based companies producing

Tinkaring Lab Robotics equipments & 3-D Printer. Total 70 students visited the site.

YOU WORK TOO MUCH

GOOD THING WE HIRED YOU

B.Tech (IT) : Placement-2022

ROOL NO.	STUDENT	PLACED IN
1814313003	Ayushi	TCS
1814313023	Anshita Goel	NEC Corporation QA Infotech
1814313028	Ayush Agarwal	Nucleus Software
1814313034	Devanshi Srivastava	Nucleus Software
1814313035	Divyanshu Saxena	NEC Corporation
1814313041	Himanshu Chauhan	TCS
1814313042	Ishika Mittal	Colaborar Labs
1814313043	Ishita Roy Chaudhary	Nucleus Software

1814313048	Khushi Srivastava	Nucleus Software
1814313055	Mansi Chauhan	TCS
1814313060	Mukul Aggarwal	TCS
1814313063	Nayan Dhawan	QA Infotech
1814313064	Niharika Gaur	TCS
1814313079	Rahul Gandhi	Nucleus Software
1814313081	Rajat Kumar	Nucleus Software
1814313083	Ram Narayan	Nucleus Software TCS

1814313082	Rajdeep Srivastava	NEC Corporation
1814313085	Ritesh Garg	QA Infotech
1814313090	Samyank Jain	Nucleus Software
1814313095	Saumya Agarwal	NEC Corporation
1814313104	Shivam Mishra	TCS
1814313107	Shrishti Tiwari	Nucleus Software
1814313111	Simran Singh	NEC Corporation
1814313117	Urmis	NEC Corporation

Urmis Agnihotri

B-Tech, IT-2, 4th yr

1814313117

Everyone is well versed with the fact that with experience comes the knowledge and so for experience one need the environment of college . College life provides the full grooming of a person from knowledge to personality. College fill our life with the friends who are always there for us ,and this is the memory which we cherish the most . I feel so lucky to be the part of an organization which has provided me excellent opportunities. IMS Engineering College provided me the best training to excel in my personal , professional as well as my academic growth. I am thankful to all my faculty members who have always been there for me whenever I felt like dropping off something ,they were there to hand it over to me. They are the reason I was able to cope up with my difficulties. The support system of the college helped me gaining self confidence. Even I feel so grateful while telling about the extra curricular activities that were held by the college management team . It provided me the best platform to showcase my talent of poetry writing.

I feel so happy to share that with the support of the Career Development Center team ,in the starting of my final year , I was able to grab the offers in NEC Corporation and Wipro awaiting. The CDC team provides me the best opportunities and also the ways on how to uphold them. On one hand where at this stage we are worried about getting placed in top companies ,on the other hand there is a constant balance of support from the CDC team which never let us feel down.

I will always be grateful to everyone who have always been there for me , from motivating me to letting me move forward in life. A big thank you to the college for being throughout with me in my phase to make my career.

Thank You.

Yashi Thakur

B-Tech, IT-2, 4th yr

1814313125

College life is known as one of the most memorable years of one's life. College life exposes us to new experiences and things that we were not familiar with earlier. IMSEC provides me the environment to learn new things and helps me to grow as an individual.

I am happy to share that I got placed in two companies i.e. TCS and Vinove Softwares and Services through campus placements. Although getting selected was not easy but I came through it, as there was lot of support from my parents and all faculty members. The Career Development Centre has provided me training on how to crack an interview. I am really very grateful to CDC team as well who always motivated me. College has helped me to unearth my hidden talent and qualities. I feel proud to be a part of IMSEC.

Thank You

UPCOMING EVENTS

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SnackDown 2021 is an annual multi-round global programming tournament conducted by CodeChef.

LINK:

https://www.codechef.com/monthly-programming-contests

DATE &TIME

5th December 2021, 19:30 hrs IST

MARKFEST 2k21 PRESENTED BY SCHOOL OF MANAGMENT

LINK:

docs.google.com/forms/d/1HySNqRgNujv5mOvz7RszAxR ovlBbV_SCZ2ePsHOhM31/viewform

DATE & TIME

30th November 2021 , 10:00AM

Mind the Mind

Brain Stormers

Questions

1.) High Performance Computer is also known as ?

2.) Which OS was introduced by Microsoft for High Performance Computing ?

3.) "When Thousand of Compute nodes that work together to complete one more task". This is called ?

4.) Which type of execution Parallel Computing use ?

5.) Concurrency Leads by ?

6.) The most powerful Computer is ?

7.) Degree of Multiprogramming is ?

8.) Semphare mostly used to implement ?

9.) Bounded Buffer problem is known as ?

10.) Which of the architecture is power afficient ?

Answers

1.) Super Computer

2.) Windows HPC Server

3.) Parallel Processing

4.) Sequence Execution

5.) Parallelism

6.) Fugaku

7.) Number of processes in memory

8.) IPC Mechanism

9.) Producer - Consumer Problem

10.) Reduced Instruction Set Computer

Thank You

Send Your articles at
itanium@imsec.ac.in

IMS Engineering College
NAAC accredited with "A" grade
Approved by AICTE New Delhi
Affilated to
Dr. A.P.J Abdul Kalam Technical
University Lucknow