EVENTIA

A BIMONTHLY NEWSLETTER

Message from President's Desk

Each day is the new beginning, the chance to do with it what should be done.. View More

Message from Provost's Desk

I always believe every day is a fresh start, an opportunity to accomplish what has .. View More

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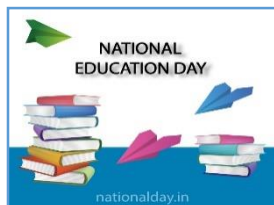
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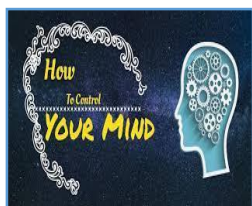Finvest Chronicle -
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Message from President's Desk

Shri P.K. Taneja, IAS (Retd.)
President - GSFCU
Former ACS Industries, Home and Forest & Environment, GoG

"Each day is the new beginning, the chance to do with it what should be done and not to be seen as simply another day to put in time."

\-   Catherine Pulsifier

At the beginning of this year 2022, I wish you all a very happy new year and a glorious future. Every new beginning, as we all know, brings with it a new difficulty, and this New Year 2022 brought with it the challenges of Covid variants, and the circumstances appear to be challenging once more. But I am confident that, based on our previous experiences and ability to deal with situations like this, we will be able to conquer all of the hurdles that time will throw our way. We can see this in the behaviour of students not only on campus but also off-campus, as the youth has become more responsible and matured to deal with obstacles.

I congratulate the entire GSFC University management team to handle the situation with utmost care and concern. This new year, I wish for GSFCU to achieve greater heights of success by adhering to its vision and goal. I'd also like to commend the teaching fraternity for their unwavering support to students in blended learning. I would urge our students for cultivating enthusiastic spirit and eagerness to gain knowledge in these challenging times.

I strongly encourage all stakeholders to participate, explore, find innovative solutions, and share their knowledge at GSFC University. Let's provide COVID-19 with the positive traction it needs to confront its issues.

I wish all of us the best of luck as the "Next Normal" emerges from the new types of challenges.

Message from Provost's Desk

Dr. Nikhil Zaveri
Provost (Vice Chancellor)
GSFC University

I always believe every day is a fresh start, an opportunity to accomplish what has to be done rather than being viewed as just another day to fill. At the outset of 2022, I wish you all a very happy and prosperous new year with bright opportunities and thriving success. When faced with unfamiliar fear of uncertainty and new Covid variations, we must maintain our spirits high and simply grasp that these are no difficulties, but new opportunities.

During the challenging period, education is the challenge for the youth but they know that education is critical for humanity's growth, wealth, and well-being. Civilized conduct, growth, peace, development, and human dignity are all embodied in education and education aids in the development of character, the strengthening of morals, and the preparation of a nation for a better future. The youth knows the real value of education and that is so considerable for them.

During the blended learning off-campus classes, we could see the students' enthusiasm, and I like to appreciate the dedication they showed towards the teaching-learning process. I am confident that this intense enthusiasm will last a lifetime and will bring them the best career prospects.

I hope and wish at the beginning of the year that this year should fulfill all the dreams and desires of all of you and send you closer to your bright future.

From Editor's Desk

Ms. Sneha Bajaj
Chief Editor - 'Eventia'
GSFC University

Greetings!

We, the entire editorial board of 'Eventia,' are delighted to bring you yet another issue of the newsletter. We have strived to bring you this issue, which is packed with information, inspiration, and insight. We put special emphasis not just on the university's academic components, but also on its economical, spiritual, and motivating aspects. The economy, knowledge as power, soft skills, innovative pedagogies implemented at the university, guest lectures and hands-on workshops, and the spiritual concept of mind control are all covered in this issue. I hope you like reading this issue and that you learn something out of it.

I would like to express my heartfelt gratitude to the entire 'Eventia' editing team for their unwavering support, and I anticipate more of the same in the future. Happy reading!

With Best Regards,

Ms. Sneha Bajaj

Chief Editor – 'Eventia' & Assistant Professor GSFC University

Guestinspiration Post
'LET US BE A CONFIDENT PUBLIC SPEAKER'

Ms. Aparajita Jha
Visiting Faculty, GSFCU.

Having efficient communication skills is most important in this burgeoning technical workforce environment. Recently, employers of entry-level engineers were asked to prioritize the need for further instruction. Over 60% of these employers identified communication skills as the primary curricular element needing increased emphasis. When ranking the top 30 types of communication, by importance, to engineering practice; two of the top 10 required skills relate to making oral presentations. However, despite this increasing need for graduates to demonstrate proficiency in oral presentations, public speaking instruction is not always required at the university level for these students. Although some students may have already taken a speech class prior to entering the university/colleges, additional training in public speaking is necessary because speechmaking in college and the real world differs markedly from what most students learn in high school. Students, unskilled in public speaking, find themselves in a difficult position when asked to make an oral presentation. Although the project that the student is presenting may be well designed, a lack of appropriate presentational skills can deter from the expertise and hurt his/her credibility in the course. The student is placed in a no-win situation. His/her project grade hinges on his/her ability to make an effective oral presentation. The above gap can be overcome by learning the skill of public Speaking which should be imperative for all students graduating.

What Is Public Speaking?
Public speaking, also called oratory or oration, has traditionally meant the act of speaking face to face to a live audience. Today it includes any form of speaking (formally and informally) to an audience, including pre-recorded speech delivered over great distance by means of technology.

Speaking in public does not come naturally.
Sitting in the audience and absorbing information is the default behaviour irrespective of standing on stage and engaging a crowd for 20 minutes seems to be a top hill task, a lot of intrinsic motivation and

confidence is needed while delivering. To keep your audience engrossed, attentive and engaged you need something new, actionable or insightful with your audience that can set a benchmark.

It's a Fact !!

01 > The fear of Public Speaking is called Glossophobia

The fear of Public Speaking is more than Death (Communication Research Report, **Karen Kangas Dwyer)** < 02

03 > 89.4 % of patient with social anxiety disorder had a fear of public speaking.

According to an online survey conducted 74% of respondednt admit to having speech anxiety. < 04

(Source: Orai.com)

Lots of Things can go haywire

Apart from the common fear symptoms a lot of things can go haywire, The microphone dies. Your slide deck doesn't work. You forget part of your presentation. You freeze on stage. People start talking while you are presenting. You don't sleep the night before. People leave while you are presenting, apart from these the other common fear symptoms of Public Speaking and takeover the enthusiasm are:-

- Nausea
- Dry mouth
- Sleep loss
- Headaches
- Dilated pupils
- Acute hearing
- Sweaty hands
- Shortness of breath
- Increased heart rate
- Increased perspiration
- Increased oxygen intake

The above-listed fear symptoms and many more are some of the roadblocks that deter the speaker from delivering the best speech that he/she might desire. However, these are only some of the temporary roadblocks that can be easily overcome by persistence and confidence and a lot of Practice.

Dedicate **70%** of your time writing and structuring your script for a better presentation

Steve Jobs used to take **2 days** to prepare for a presentation.

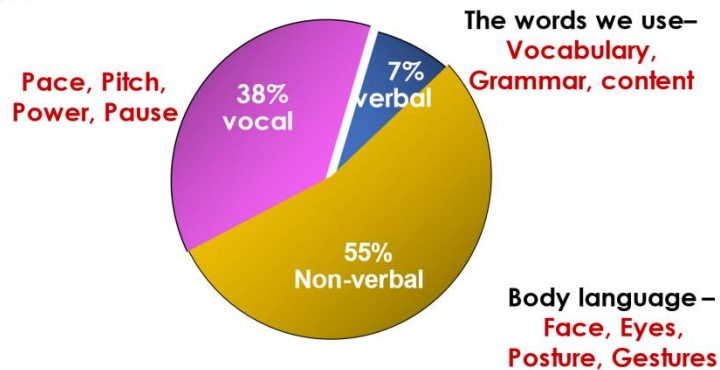Audience engagement drops by **14%** if presenter does all the talking without audience participation

Adding facts and figures to a presentation increases audience retention by **20%**

The First and foremost quality that we need to understand how we communicate and then look at the common traits that a beginner and expert speakers can imbibe about the most important skill of life ' Public Speaking'.

How We Communicate

Pace, Pitch, Power, Pause

38% vocal

7% verbal

The words we use– Vocabulary, Grammar, content

55% Non-verbal

Body language – Face, Eyes, Posture, Gestures

Judi James (1995, p. 9)

Effective Public Speaking Tips

The good point is that public speakers are not born, they are made. It is a skill that can be mastered with continuous practice and utmost desire and passion. It is the desire to advance public speaking skills that draw them closer to perfection. The art of public speaking is not a mere reading the cue cards. Fortunately, if you have the passion, learning about the essential qualities of professional speakers is a great way to become one yourself.

Our Preparedness towards the Public Speaking

A. Know your Audience

- Gender
- Age
- Problem

B. Create Content with Agenda in Mind

- Desired Outcome
- Avoid Generic Content
- Customized Solutions
- Coherent Theme
- Avoid Repetition of Contents
- Include Facts & Figures.

C. Engage Your Audience

A good speaker should engage the public; he should engage and evolve the audience as much as possible. This will help to eliminate the element of boredom and break the monotony. It is the speaker's responsibility to hold the audience attention and make sure that the audience is completely engaged in the session. A good public speaker can achieve this by following ways:-

- Communicate like Community
- Add Element of Surprise
- Start with a story
- Facts and Figures
- Speak Visually
- Body Language
- Tonality
- Eye Contact
- Avoid Inappropriate Humor

D. Body Languages to be Avoided

Standing Leg Crossed

Leaning on the Podium

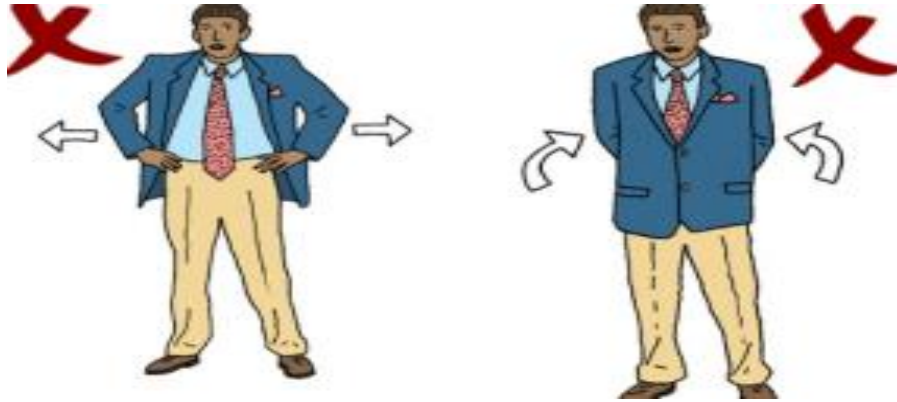Pointing Your Audience

Cross Arms

Distracting Hand Gesture and facial Gesture


Don't be a foreigner on the Stage

E. **Tonality**

Avoid standing with hands on waistline and back

A good public speaker should always take due care of his/her tonality. **Tonality** is the arrangement of pitches and/or chords of a musical work in a hierarchy of perceived relations, stabilities, attractions and directionality.

Tonality

Think
Pitch
Enthusiasm

confidence
Voice Modulation
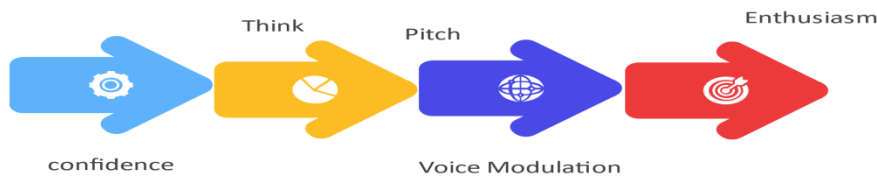
F. Eye Contact

Maintaining the right eye contact is the most requisite skill of a Public Speaker, it is with the help of right eye contact the speaker can establish connectivity with its audience. Most people tend to avoid eye contact when speaking because they think it's awkward or uncomfortable. This happens because most people feel like their eyes are being invaded, so the natural reaction is to push back by looking away. Unable to establish proper eye contact means avoiding the audience which can have serious consequences.

EYE CONTACT
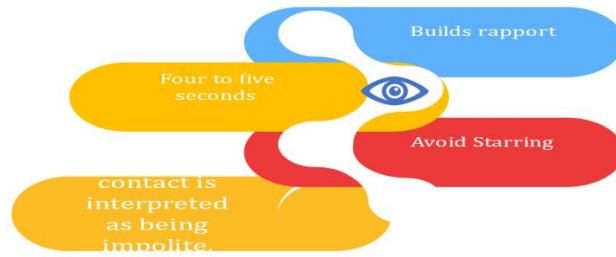
G. Conclusion:

The conclusion is as important as the opening it is the last impression that the audience carries with him about the speaker, The speaker should summarise all the main points and recapture the essence of speech, the speaker must highlight the main points and the purpose of his/her speech, due care should be taken by the speaker not to introduce new points or new supporting shreds of evidence as this is likely to confuse the audience.

Closing

GUIITAR Council
ENTREPRENEURSHIP AND INNOVATION AS CAREER OPPORTUNITY

Dr. Saroj Shekhavat
CEO, GUIITAR COUNCIL

Mr. Ashish Shah, Sr. Training Officer, The Centre for Entrepreneurship Development, GoG, Vadodara Region invited on 29th October, 2021 at GSFC University to guide students towards Entrepreneurship and Innovation as Career Opportunity.He emphasis on the responsibility of an individual towards society, towards family and link it with the human engineering concept.

Mr. Ashish Shah explained the relationship between education, earning and decision making power in the family. He further explained why people become entrepreneurs. He described technological innovation, process innovation, product innovation, positive innovation and negative innovation. Pesticide is an innovation but it harms nature. Innovation should be beneficial to society at large and not harm nature, which is known as a positive innovation.

Mr. Ashish Shah informed about Entrepreneurship training (EDP). Any individual with or without basic qualifications and experience can join this type of training program. Preference is given to the candidate who has completed post graduate, graduate, diploma & ITI courses. The training module / Content of the training program / subjects consists of which industry to be started, how to start, which type of held and facilities are available, how to manage the business successfully, product guidance, information sources, market survey, managerial inputs, project report preparation, counseling, achievement motivation and post training supportive assistance.

Well known experts from the industries are invited to the training program to deliver lectures and to give professional guidance and detailed information.

Mr. Kirankumar Parmar, Sr. Manager, GUIITAR Council discussed career opportunities to start an own business.He explained basic terms: Idea, Innovation, Invention, Proof of Concept, Prototype, Entrepreneurship, Characteristic of an Entrepreneurship, Legal entity etc. with students.

He shared two Government policies namely: 1) Students Startup and Innovation Policy (SSIP), Education Dept., GoG 2) Nodal Institute, Industries Commissionerate, GoG information and motivated students to take the benefits.

He briefed two examples to understand entrepreneurship and innovation:
1. ODDEVEN.Com: 2015 in Delhi government introduce Odd-Even scheme to fight against pollution issue. He discussed the initiative taken by Mr. Akshay (13-year-old young boy) who started the odd-even website and its growth and business model. He worked on the problem and created a solution by sharing the vehicle concept.

2. Teabag story: Traditionally when buyer and seller exchange goods, seller send a box to probable buyer, they taste it and provide order. But due to transportation, they faced many problems. Once they put it into a silk bag and send it to the probable buyer. When the buyer received the silk bag he found that he can put it directly into hot water and drink it; taste it and flooded with orders for his "tea bags".

He described the proof of concept (POC) which is an exercise in which work is focused on determining whether an idea can be turned into a reality. POC is meant to determine the feasibility of the idea whereas a prototype is an incomplete version of a physical or digital product, to be taken into user testing. It should incorporate all of the fundamental features and functions, without the final design elements that create a polished aesthetic.

He said a startup is an entity that is working towards innovation, development or improvement of products or processes or services, or if it is a scalable business model with a high potential of employment generation or wealth creation. Further, he briefed the benefits of the Indian startup ecosystem.

He said creativity is the ability to come up with new ideas and to identify new and different ways of looking at a problem and opportunities. A creative mind has to have entrepreneurial skills to bring those creative ideas to life in a business setting.

In the end,all participants were participated in the creative games and expressed their imaginations.

GUIITAR Council
WORKSHOP: RAPID PROTOTYPING WITH 3D PRINTER

Mr. Kirankumar Parmar
Sr. Manager, GUIITAR COUNCIL

GUIITAR Council, Mechanical Engineering. - School of Technology, GSFC University, Students Startup Innovation Policy (SSIP), Institution's Innovation Council (IIC) and Startup Gujarat has organized a workshop on "Rapid Prototyping with 3D Printer" on 13th October, 2021 at 10:00 A.M. to 04:00 P.M. at Auditorium, SoT, GSFC University.

Mr. Rudresh Vyas explained the Digitalization of Manufacturing and the difference between 2D Pixel and 3D Voxel. He shared the process of manufacturing techniques such as subtractive manufacturing and additive manufacturing. He explained Additive Manufacturing technology in detail and further 3D Printing Technology. He said, nowadays Medicine, Dental, Car, Tire, Aircraft, Toys, Food, Defense, Fashion, Jewellery etc. industry are using 3D printers for their day to day work. He discussed the case study of Instant Shoe Shiner, Titan Watches, Dental Industry, Jewellery Industry and Tourchit (Startup). He also explained how 3D Printers were used to develop various products such as face shields, door openers and swab production.

Mr. Mayur Kachhiya explained the Product Design Workflow to the participants. It will start with a basic idea about the solution/product → Concept Development and Industrial Design→ CAD design → Physical Prototype → Actual Testing → Refinement and Designing → Physical Prototype → Production Ready → Launch. He shared a case study of "Dr. Cardio – A pocket ECG machine" design by using Injection moulding technology vs. 3D Printer Technology.

Mr. Mayur explained the fundamentals of fused deposition modeling (FDM) 3D Printer which is mostly used for prototype development across the world. He shared steps to create CAD file for 3D printing in Solid Work software and printing setting in Ultimaker Cura slicer software. He also shared www.thingiverse.com website for free 3D printer file downloading for practice.

Mr. Mayur explained filament material types, their usage, their strength and how to post-process the 3D printed prototype. He demonstrated various parts, prototypes and products prepared by using 3D printers. He designed and printed swastika in the 3D printer and demonstrated it to every participant one by one.

Mr. Rudresh Vyas invited students and faculty to visit Engineering Technique, Vadodara for more information and technical help for prototype development.

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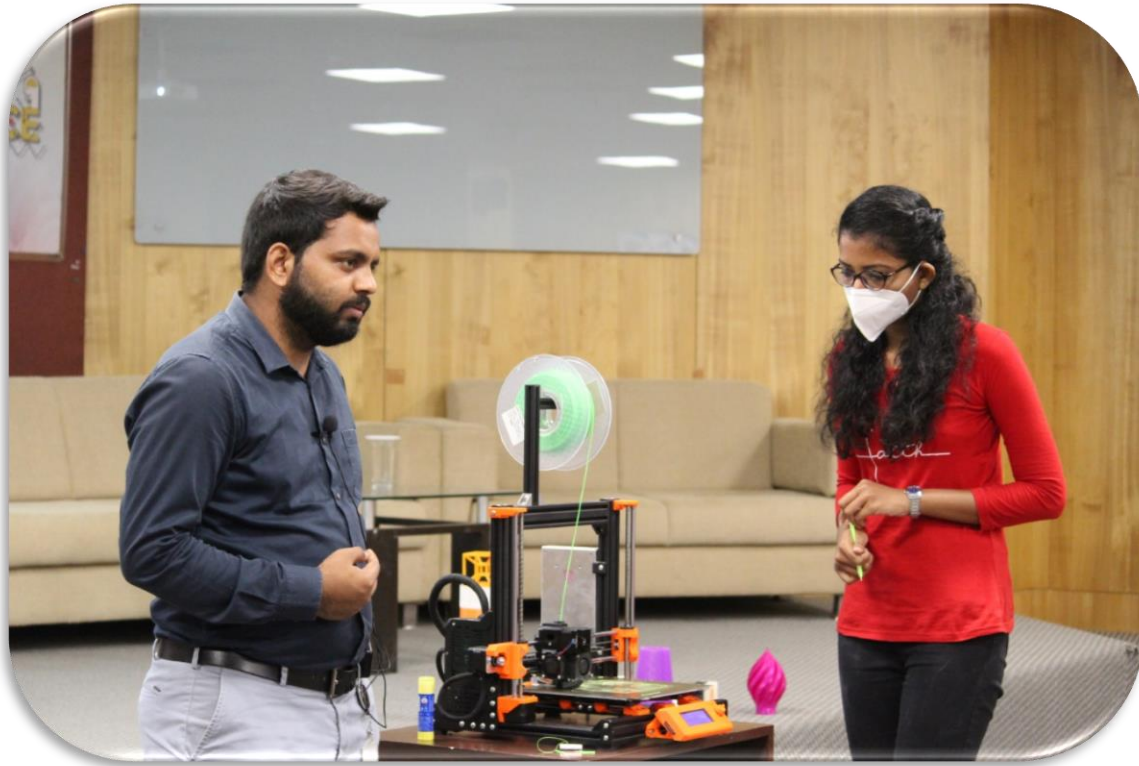
GUIITAR Council
CELEBRATION OF NATIONAL EDUCATION DAY

Dr. Abha Kalaiya
Assistant Professor, SoM

GUIITAR Council, GSFC University and Institution's Innovation Council (IIC) Celebrated National Education Day on 11th November 2021 from 02:30 P.M. to 03:30 P.M. at Auditorium, SoT, GSFC University.

Dr. Abha Kalaiya, Assistant Professor, SoM and GUIITAR Council Team members welcomed participants and informed the importance of National Education Day. She said in September of 2008, India's Ministry of Human Resource Development declared the birthday of 'The great son of India' — Maulana Abul Kalam Azad — to be nationally recognized as Education Day. The day is also seen as an occasion to remember Abul Kalam's contribution in laying the foundations of the education system in an independent India and evaluating and improving the country's current performance in the field.

Amogh Vyas student of BBA, GSFCU has given a short speech on the importance of education. He further explains the difference between Literacy and Education. He said literacy refers to a person's ability to read and write, while education refers to the process of acquiring knowledge, skills, values, morals, habits, and beliefs.

Jay Jain and Heet Patel students of BBA, GSFCU conducted a short quiz on National Education Policy and chocolates were distributed to the students who have given correct answers. They have prepared and presented a short video on National Education Day.

Heet Patel, Bhagya Kothadiya, Amogh Vyas, Diya Choksi, Sanidhya Pandya and Rajat Saxena students of BBA, GSFCU divided into two groups and discussed New Education Policy. They discussed new 5+3+3+4 curricular structure benefits, study in mother tongue/regional language at least grade 5 and entry/exit to be allowed with relevant certification.

Nandini Mane, Pranav Prajapati, Shrusti Modi, Harsh Shah, Sanidhya Pandya, Rajat Saxena, Hiranya Rathore, Dhruvi Suthar, Yash Vaddorya and Jainail Joglakar students of BBA performed Nukkad Natak on the topic "Right to Education Act, 2009" and explained how students are getting benefit from education. They have highlighted Government schemes such as Mid-Day Meal, Scholarship etc. to the participants.

At the end, celebration was concluded with two poems by students.

Poem 1

इसानियत और पशुता के बीच का अन्तर है शिक्षा।
शाति, सुकून और खुशियों का जन्तर है शिक्षा।।

भेदभाव, छुआछुत और अधविश्वास दुर भगाने का मन्तर है शिक्षा।
जहाँ भी जली शिक्षा की चिंगारी, नकारात्मकता वहा से हारी।।

जिस समाज में हों शिक्षित सभी नर-नारी।
सफलता-समृद्धि खुद बने उनके पुजारी।।

इसलिए आओ शिक्षा का महत्व समझे हम।
आओ पूरे मानव समाज को शिक्षित करें हम।।

Poem 2

अधकार को दूर कर जो प्रकाश फैला दे।
बुझी हुई आश मे विश्वास जो जगा दे।।

जब लगे नासुमकिन कोई भी चीज।
उसे मुमकिन बनाने की राह जो दिखा दे वो है शिक्षा।।

हो जो कोई असभ्य, उसे सभ्यता का पाठ पढ़ा दे।
अज्ञानी के मन में, जो ज्ञान का दीप जला दे।।

हर दर्द की दवा जो बता दे.. वो है शिक्षा।
वस्तु की सही उपयोगिता जो समझाए।।

जो ना होगा शिक्षित समाज हमारा।
मुश्किल हो जाएगा सबका गुजारा।।

Finvest Chronicle

Dr. Chetna Parmar
Associate Professor – SoM
GSFC University

Economic Recovery Update:

The global economic recovery is showing mixed sign as data from major countries like US and Europe suggest that growth momentum is improving while China is showing signs of restraining growth rate. The selected segments of global economy continue to be impacted due to continued high Covid-19 cases and also supply chain issues due to new variant. US has announced tapering of its bond purchases program starting November 2021, UK Central bank and ECB continue to maintain status.

In India, growth momentum improved in October 2021 with economic activity indicators indicating strong recovery with rating agency feedback. Update on COVID-19: The new cases addition globally continue to trend lower in October 2021 and added 13 million cases while in the month of September 2021: 16 million and total Covid-19 cases rose to 248 million as of 31 October 2021.

The major countries which added to the new cases include US, UK, Russia, Turkey, Ukraine, Germany. The pace of vaccination has moderated in most advanced economies as substantial proportion of their population has been vaccinated.

Pace of vaccination has not risen to the levels expected earlier driven by lower increase in supply. The gap between people vaccinated with one dose and both is one of the highest in India. This is partly due to higher gap between the two doses for Covishield as compared to vaccines in advanced economies

	% of Population		
	Given 1+Dose	**Fully Vaccinated**	**Population (in million)**
Canada	79	75	38
U.K.	75	68	68
Israel	75	63	9
Germany	70	67	84
EU	69	67	448

U.S.	67	58	331
Brazil	76	56	213
Mexico	58	47	129
India	54	24	1380
Russia	38	15	146
Indonesia	45	8	274

Source s: Bloomberg JM Financials

India continues to witness lower number of cases and active cases have now fallen near pre 2nd wave lows. The distribution of new cases continues to remain skewed as one state, Kerala, accounted for 55% of the total new cases. Fortunately, no major impact was visible in other parts of country till now. With the festive and holiday season over the next 2 months, it will be important to monitor the new cases and risk of cases rising remains.

Recovery picks up pace as the restrictions are eased in most states:

The high frequency indicators witnessed a broad based sequential improvement in July, 2021 aided by the gradual removal of restrictions by most major state government. Given the distorted base effect, we have presented the 2 Year – CAGR for indicators in the table below:

Indicators	Units	Sep	Dec	Mar	June	Sep	Oct-21
Retail Registration Auto	% CAGR	-10.3	-2.1	-5.7	-14.7	-11.2	-16.3
PW		7.2	12.4	16.6	1.2	19.8	-4.1
PV		-49.9	-25.5	-9.7	-22.9	0.7	2.5
MHCV		-8.	-13.7	-3.1	-18.9	-2.4	-9.9
LCV		38.7	18.7	21.8	15.6	23.4	16.6
Tractors		0.5	10.3	7.8	-3.6	12.8	16.8
Gross GST Collection		9.3	13.3	13.9	21.7	13.9	17.9
Average E-way Bills		1.5	2.1	5.7	-1.5	2.7	7.5
Power Demand		40.7	41.1	36.2	28.1	32.8	32.0
IMPS Spending		3.9	6.5	4.4	5.5	9.4	11.8
Railway Fright Earnings		4.2	2.7	0.9	2.3	11.4	13.6

Manufacturing PMI	Index	56.8	56.4	55.4	48.1	53.7	55.9
Services PMI	Index	49.8	2.7	54.6	41.2	55.2	58.4
Unemployment Rate	%	6.7	56.4	6.5	9.2	6.9	7.8
Labour force participation rate		40.7	52.3	40.2	39.6	40.7	40.4

Sources:RBI Report &www.icegate.gov.in

Equity Market Updates:

The declining trend of Covid-19 cases, easing restrictions, improvement in economic activity, pent up demand, etc. resulted in most economic activity indicators pointing at economy recovering to pre-pandemic levels. We remain positive on near term growth prospects in view of the upcoming festive season, buoyant global trade, improving mobility and opening up of economy. The reduction in duties on auto fuels should also ease inflationary pressure and improve sentiments, to a certain extent. Again, near normal monsoon and likely robust kharif production is likely to aid rural economy.

Knowledge Concavity
BASICS OF CLOUD COMPUTING

Ms. Shweta N Rajput
Assistant Professor – Computer Science & Engineering, SOT
GSFC University

Our day starts by using utility services like water, LPG gas, electricity and telephone/cell phone, we pay the charges for these services based on how much we consumed it. No need to build the power plant and gridlines for electricity, just consume it from the electricity service provider and pay, simple isn't it.
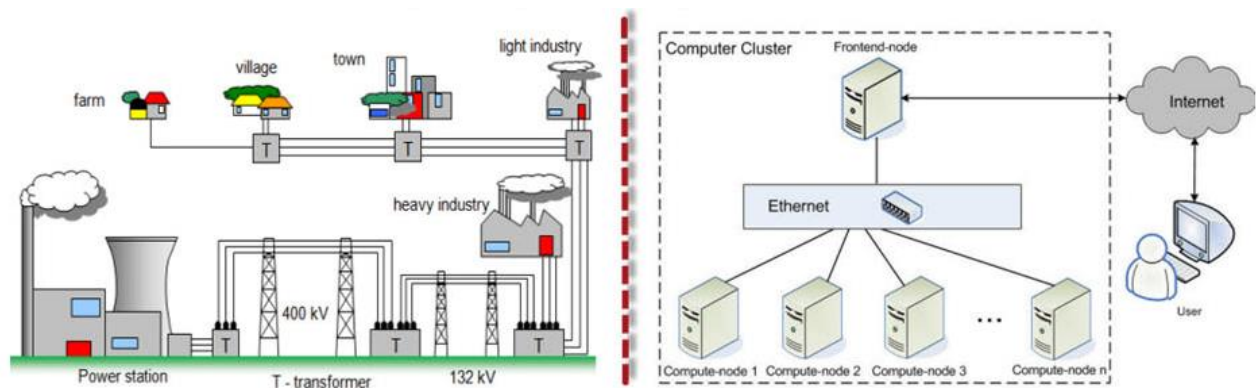
Let's imagine you are having your own startup. And you need a computer system with a good configuration I mean computing power, storage and software (making a simple assumption!). You thought this is a one-time investment and purchased everything you needed. All went smoothly for a year, and Now your team is increased (good for you), so again you need more systems with all configurations mentioned earlier. Your problem is not ended over here, your one of the clients wants to change the software or think to move to another platform. So you need one IT department which takes care of all the things. But wait can't we use the storage or computing power as our utility services and just pay for it without bothering how to manage everything by own. Yes, we are already doing it. We are using Dropbox, Google's drive and many more for storage purposes, it is cloud services, we are consuming by simply having internet connectivity.

Cloud computing is a service that you are consuming and paying to the service provider. See no need to build a power plant, transmission line for consuming the electricity by own, just use the service from the electricity service provider and pay the bill as per the meter charges.

A formal definition of cloud as per ''

"A model for enabling convenient, on-demand network access to a shared pool of configurable computing resources (e.g., networks, servers, storage, applications, and services) that can be rapidly provisioned and released with minimal management effort or service provider interaction"

- Cloud should have:

  (i) Pay-per-use (no ongoing commitment, utility prices);

  (ii) Elastic capacity and the illusion of infinite resources;

  (iii) Self-service interface; and

  (iv) Resources those are abstracted or virtualized

Types of Clouds

Cloud computing services is categorized based on abstraction level of the capability provided and the service model of providers

- Infrastructure as a Service
- Platform as a Service
- Software as a Service
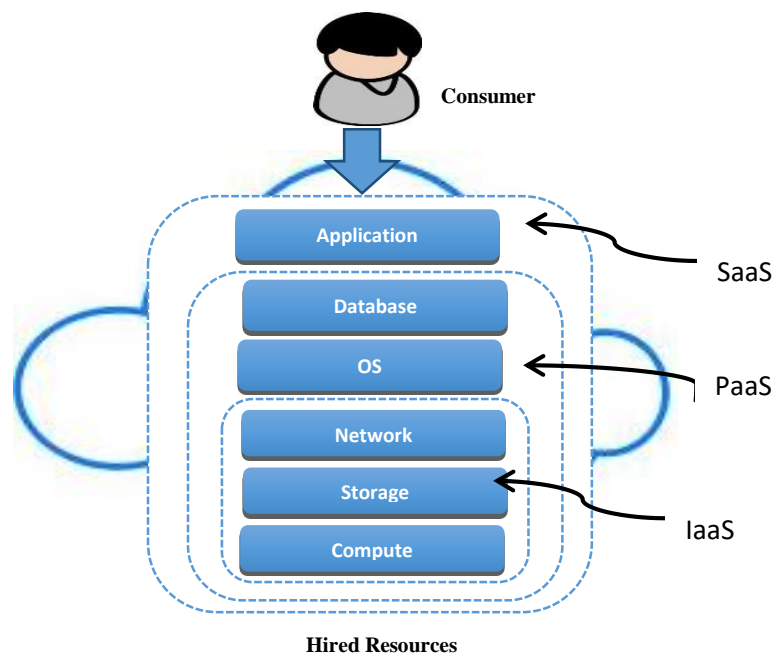
Infrastructure as a Service

- IaaS offer virtualized resources like computation, storage, and communication on demand
- It is the bottom layer of cloud computing systems

- Amazon Web Services mainly offers IaaS

Platform as a Service
- PaaSoffers an environment on which developers create and deploy applications and do not necessarily need to know how many processors or how much memory that applications will be using.
- Google AppEngine, an example of Platform as a Service

Software as a Service
- This model delivers applications
- Applications reside on the top of the cloud stack
- Alleviates the burden of software maintenance for customers and simplifies development and testing for providers
- Salesforce.com relies on the SaaS model

Cloud Deployment Model
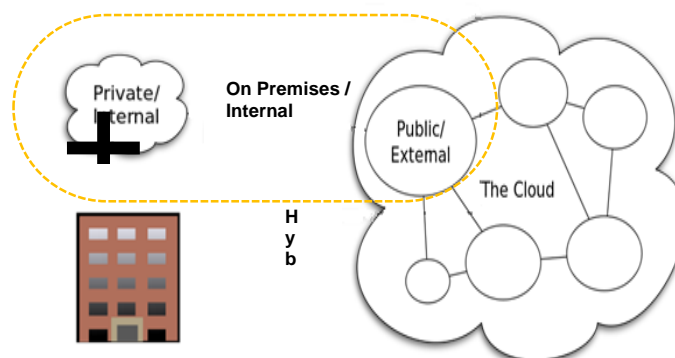
- **Public cloud** : Cloud made available in a pay-as-you-go manner to the general public
- Private cloud : Internal data center of a business or other organization, not made available to the general public
- **Community cloud** : Shared by several organizations and supports a specific community that has shared concerns (e.g., mission, security requirements, policy, and compliance considerations)
- **Hybrid cloud** : Hybrid cloud is a solution that combines a private cloud with one or more public cloud services, with proprietary software enabling communication between each distinct service

Now, as we understand the basic of cloud and major service providers like Amazon Web Services (AWS), Microsoft Azure, Google's App Engine and Salesforce, the next question is how to start learning this technology. AWS Educate is a program offered by Amazon which helps student to learn real-world cloud technology skill during their graduation. Google Cloud offers students access to a tailored learning program that let them perform hands-on labs, earn badges, and demonstrate their proficiency. The series is designed for students with little or no experience in cloud computing. You can visit https://aws.amazon.com/education/awseducate/, https://azure.microsoft.com/en-in/free/students/ and https://cloud.google.com/edu for more details. Cloud Computing provides flexibility and hassle-free management due to this from small scale to giant companies are migrated to cloud. So learning cloud technology is essential, as "Cloud is every Where"

Students' Corner
HOW DO I CONNECT WITH PEOPLE?

Ms. Anshika Sen
CSE SemesterIII
GSFC University
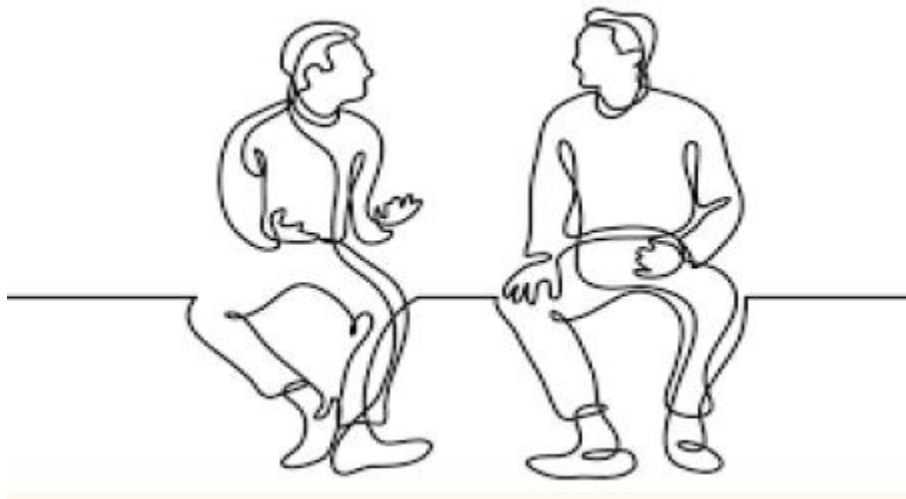
INTRODUCTION

Good morning all. I am Anshika sen and the topic for activity is "How I connect with people". Connections can be simply related as "To communicate or to meet someone". Actually the problem is that due to this deadly pandemic around the globe, people were confined their own homes and yet started gaining social anxiety and eventually number of people interested in socializing decreased on large scale.

Connecting digitally

There are a lot of ways people can connect to each other ie by physically or digitally. Social networking sites are indeed a great tool for such activity. People from different city of different age groups handling different hobbies can connect via social media and can indeed enhance their own capabilities. Connecting with people not only helps you to have a good network but this process is a part of you becoming the best version of yourself. Yes, one can explore themselves while exploring others and in the process of connecting with other sources, people actually realized that they are also adding values to their own personalities.

So how do I connect with people:

1. <u>**Smile:**</u>

   It all starts with a smile: a good, warm smile. Never pretend to give a fake smile and always wear a smile that makes everyone's day. It is stated in the Indian mythological stories that lord Krishna always had that calculated smile on his face creating a positive aura around him. Thus indeed stated the power of smiling.

2. <u>**Having good vibes around:**</u>
   I believe a lot in spirituality and I think that there's always an energy encircling around us. The intensity of the energy determines the flow of thoughts inside us. If we are having positive

   Thoughts then the people coming in contact with us will always feel positively energized. So try keeping positive vibes around you as it is the most important factor. Also, this encourages the person in front of us to be quite comfortable around.

3. <u>**Offering an affirmation:**</u>

   I find that there's an always something positive we can say to others and that also you think is genuine about them. Many of the good friendships begin with affirmations of the little details like "cute earrings" or "nice dress". Even if they are good in something like their personality, try giving some highlights to it.

4. <u>**Connecting on a common ground:**</u>

   A person can begin the quest to meet new people hassle free by looking for the pages on web that people have joined with the same interests. Connecting with people can greatly change your life as well as life of others. Having a common ground or interest can make the conversation even more interesting and will connect you with the person more.

5. **Be yourself:**

Faking yourself in front of other is never an option. Never try to be that person you are never at the end of the day. Be the same person everywhere.

These are the basic thing people usually use I their day to day life to connect with people.

HOPE IT MAY MAKE A DIFFERENCE.

Thank you.

Students' Corner
THE BLESSINGS OF FRIENDAVERSARY

Ms. Hiranya Rathore
BBA Semester III
GSFC University

It was a pleasant sunny morning of the month of April 2013. The wind was blowing, trees looking greener and fresh, when a little girl studying in class 4th was all ready to go to the school. It was a fresh start to a new grade but what was causing her anxiety was her bus which was changed to a new route among new people. She was standing with her mother at the bus stop waiting for the bus to arrive. In less than 5 minutes, the mother-daughter duo could see a yellow colored bus with DPS Harni written on it arriving towards them.

With a smile on her face the little girl waves at her mother. Just as she enters the bus she sees many students sitting and chit-chatting. She looks on the front of the bus but finds no place to sit and is suddenly called by a girl named Mahek (A healthy little girl of the same age with specs and a long ponytail). Our shy girl follows her fellow friend at the back of the bus and finds two other boys sitting with a warm smile. Mahek introduces them to Hiranya (A skinny shy girl with shoulder-length hair). Rajat(A mischievous boy with specs) and Pratham (A quiet boy with specs) were pleased and excited to meet their new friend.

It felt like they were destined to meet. These four kids became friends and were soon known as the most talkative group on the bus. They were so into themselves and so mischievous that the bus in charge always separated them. The separation went like Rajat was asked to sit on the conductor's seat, Hiranya and Mahek were asked to sit in the front row and Pratham, at the back. There used to be so many laughs, funny games, support. Time flew, they all were now in 7th grade ready to go in 8th, when on the last day of the school before the summer holidays it was announced that again the bus routes will be changed. This was the turning point of their friendship when all four of them were distributed in different buses. It was hard but they had to accept the fate.

After the holidays, when the new grade started, what brought excitement was that Hiranya and Rajat were in the same class. From that point, this journey took a new turn by bringing the two closer. It was from 8th till now they both are together studying in the same college and deepening their friendship. Time is indeed almighty. They lost their precious group but found support in each other. Time flew in the thin air and the bond got stronger and stronger.

It is said no relationship is perfect and so do their friendship also. There were many fights, complications but because of their immense trust in each other and strong roots, they overcame all the struggles. They are so much strong that they don't even need verbal communication they just understand each other by looking into each other's eyes.

Hiranya's note: I am so lucky to have a friend like Rajat who understands my mood by just reading my text. He is the one I love the most and trust the most in this world. In these 10 years, he became my family. I don't know about the future but I would promise him that he has his Hiran forever beside him. Just close your eyes, imagine me and boom I am there sitting with you, listening to your talks and laughing. Thank you for coming into my life and becoming my biggest supporter, motivator and my most importantly my Best Friend.

Rajat's Note: Hiran- one of the biggest support I have in my life, people say there is only one mother but I have so much fortunate that I got 2 mothers that are Neha Saxena and Hiranya Rathore. There is no difference between the two except one that is of age otherwise both are the most caring person in the world and the best supporters too. And a big big thank you for being in my life and supporting me in all difficult situations. Also, people say that true friends are those who not only support you in happiness but those who always be there in your difficult times are your real friends. She has done so much for me that word thank you is very small to express my gratitude. Please always be with me Hiran.

Environment Canthus
ENVIRONMENTAL CHALLENGES ASSOCIATED WITH PETROLEUM INDUSTRY

Ms. Priyanka Pandya
Assistant Professor, Chemical Engineering
GSFC University

Part I

1. Introduction

Petroleum refining is one of the largest industries and a vital part of the national economy. Petroleum refineries separate crude oil into a wide array of petroleum products through a series of physical and chemical separation techniques. These techniques include fractionation, cracking, hydrotreating, combination/blending processes, and manufacturing and transport. The refining industry supplies several widely used everyday products including petroleum gas, kerosene, diesel fuel, motor oil, asphalt, and waxes.

The exploration and exploitation of heavy crude oil have raised series of environmental challenges and caused increased concern for the communities where the oil refineries are cited. Heavy oil is a naturally occurring, unrefined petroleum that is basically composed of hydrocarbon deposits and other organic

materials. Activities such as gas flaring and oil spillage have led to the release of toxic organic and inorganic pollutants, which has resulted in acid rain, climate change, and contamination of soil, water, and air. These environmental hazards have caused adverse effects directly or indirectly to the ecosystem.

2.   Crude Oil exploration and exploitation

Basically, crude oil undergoes various stages of exploration before getting to the end consumers or retailers. Oil exploration and exploitation is a major revenue earner in petroleum-producing countries. However, like most human activities, it results in environmental hazards.

The overall well-to-consumer supply chain for petroleum products is often described as being segmented into three main segments:

2.1 Upstream activities: This comprises the preliminary stages. It involves exploration activities of crude oil deposits leading to the production of crude oil.

2.2 Midstream activities: These involve the transportation of crude oil to refinery; the refining of crude oil into marketable products; and the onward distribution of these products to wholesalers and retailers.

2.3 Downstream activities: Similarly, these categories of activities involve the retail end of petroleum industry. Gasoline stations are the main downstream companies.

3. Crude oil processing

3.1 Separation: The first step of crude oil processing involves the separation of the complex mixtures in the heavy crude according to their molecular weight via atmospheric distillation at atmospheric pressure.

3.2 Catalytic Cracking: The heavy fraction leftover after atmospheric distillation still retains many compounds of medium density. This fraction is transferred to another column where it undergoes a second round of distillation to recover middle distillates like heavy fuel oil and diesel. In the conversion process, the residual heavy hydrocarbon molecules from the separation process are broken down into two or more lighter molecules.

3.3 Treating: Treating entails deliberate removal of molecules that are corrosive or results in air pollution, especially sulfur.
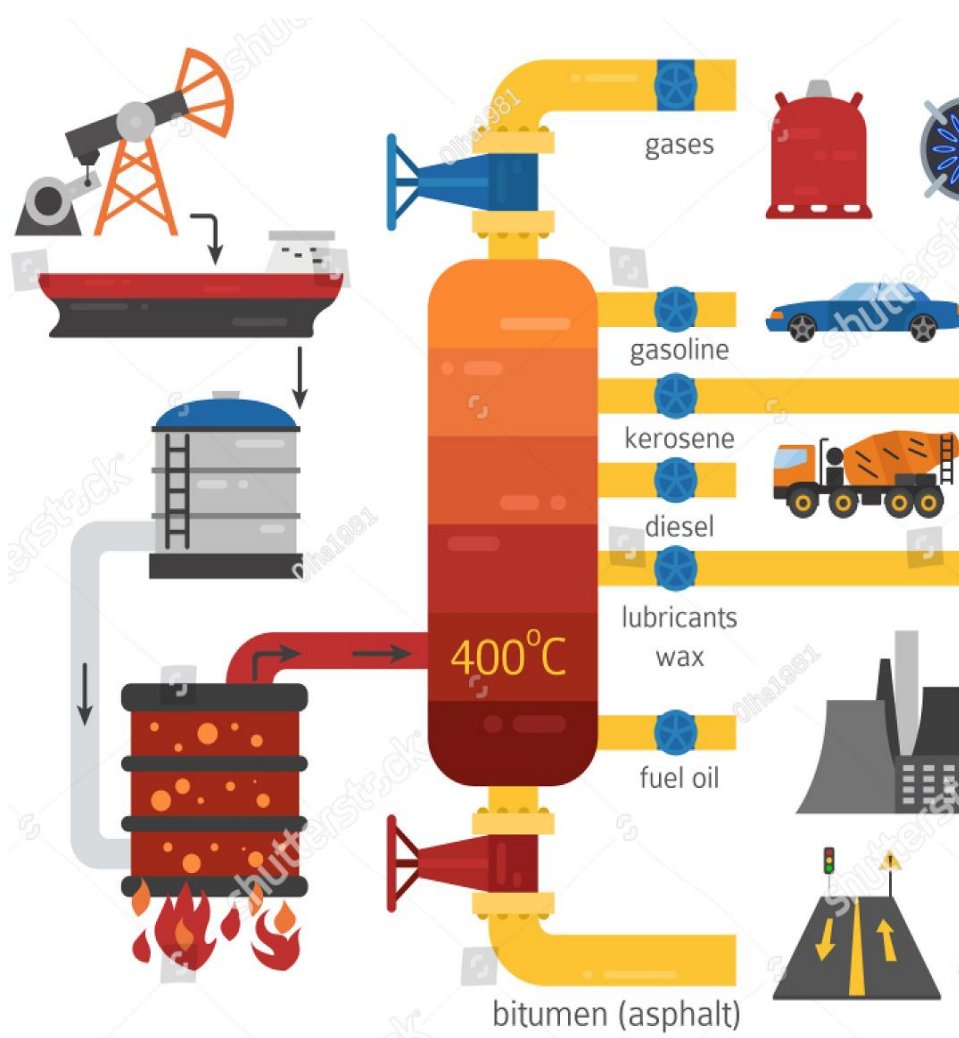
4.   Challenges associated with heavy crude oil processing

4.1 Gas flaring

It is known as the controlled burning of natural gas that cannot be processed for sale or use because of technical or economic reasons. Gas flaring has been one of the most challenging energy and environmental problems facing the world today. The act of flaring has been allowed for the efficient utilization of the associated gases obtained from crude oil refining processes. This represents massive resource wastage and a remarkable environmental problem, representing tones of CO_2 release into the environment.

During flaring, the burned gas generates mainly water vapor and CO_2. Generally, the gases being flared consist of a mixture of different gases; their composition depends on the source of the gas going to the flare system. Natural gas predominantly contains about 90% methane (CH_4) with ethane and small amounts of other hydrocarbons as well as variable amount of inert gases like N_2 and CO_2.

4.2 Classification of flaring processes

- ✓ Emergency flaring
- ✓ Process flaring
- ✓ Production flaring

Think Aloud
HOW TO CONTROL YOUR MIND?

Mr. Dhairya Patel
Teaching Assistant – Physics
GSFC University

Buddha described the human mind as being filled with drunken monkeys, jumping around, screeching, chattering, carrying on endlessly.

We all have monkey minds, Buddha said.

The most common question that we find is how to control the mind. How to stop the chattering of this mind and how to make the mind quiet and calm. Bhagavad Gita explains this in a very beautiful fashion. Lord Krishna in the sixth chapter of the Bhagavad-gita explains how to meditate five thousand five hundred years ago to this great fighter friend and devotee of the Lord by the name Arjuna. When Arjuna asks Krishna "O Krishna! if you tell me to control the wind I can but if you tell me to control my mind I cannot" Krishna replies, "Those who aspire to the state of yoga should seek the Self in inner solitude through meditation. With body and mind controlled they should constantly practice one-pointedness, free from expectations and attachment to material possessions." What was applicable then is applicable now too. Being in this modern era, it's very important for us to know how to control the mind and what is the process that we can follow on a practical level.

The mind is such a jukebox that it contains thoughts, feelings, and emotions, all the things that we have seen, smelled, tasted, heard, and touched. All these impressions are imbibed there in the mind and we find that sometimes the mind just throws different emotions and it's very difficult for us to concentrate. Students complain many a time that when they are studying their books, they feel like playing and when they're playing down the mind tells them "you're playing? You should be studying; you have an exam day after tomorrow." Hence, it's very important that we control our mind. If this mind is controlled, it is our best friend. If it is not controlled, it is our greatest enemy.

According to some of the speakers the mind is bad but the thing is, the mind is like a knife if the knife is in the hand of a surgeon it saves life but if the same knife is in the hand of a serial killer, it takes life, so the knife is not good or bad but the utility of that knife is good or bad. Similarly, our mind which is so restless and always filled with vibrations and chatters and never keeps us calm can be properly controlled and also utilized in the right direction if treated properly. There is a process called mantra meditation. Mantra means chanting a certain sacred name of God or a sacred chant that relieves the mind and makes it peaceful.

By taking shelter of the holy names of God, we believe that all our sins are destroyed and we become peaceful. There are two ways we could understand this on a practical level. There are do's and there are don't s.

First of all, let us discuss the don't s. Identify the places where the mind loves to hold. Now analyze and think is it worth spending your time. There are students who confess to me that they are addicted to different sites on the internet and the mind takes them there. Some even complain or rather they completely confess their inability to overcome smoking. They say I want to overcome but the mind is pushing them, so the don'ts are first and foremost we have to understand where are the places where the mine holds, where are the places where it's wasting your time and energy. There have to be practical steps taken not to indulge the mind there. Now, because the mind is like a jumping monkey if you tell it not to indulge there you have to also tell it where to indulge.

Let me give you the **ABCDE** for mind control.

A is **Association**. When you associate with people who are calm composed and who have substantial control over their minds. Then in that association, we would find it's very easy to control our mind. Just like if we want to strike good business we have to have the association of intelligent businessman. If you want to make it good in your life as a student, you have to associate with those who are ambitious. Similarly, if you want to control your mind and calm the mind we have to associate with elevated devotees.

B for **Books**. Let us take this step of reading 10 to 15 minutes of some good books on life lessons. By learning philosophy and trying to implement it, the mind gets a very positive feed. It gets a feast that it can come over and not indulge in negative emotions.

C is **Chanting**. By chanting or mantra - the holy names of the Lord, we find that as a student, as a professional, as a housewife, as a scientist, as a philosopher, as an artist - whatever profession we are in if you make it a point to chant then the mind becomes very calm. It doesn't take long just takes seven to ten minutes so get started soon.

D is **Diet**. We have to be very careful about what we eat and from where we eat. If we eat unhealthy junk food which is cooked by agitated people, because fire carries the consciousness of the cook, we would find that those who are eating that also become agitated. So we must make it a point that we stick to vegetarian food and even better if we can eat '*satvik*' food. So when we take care of that D, that is to say if we take care of what goes in as the diet is also pure, what comes out as language is also pure. What we do with our eyes that is reading is also pure what you do with your body as the association is also pure and when all the ABCD are pure, The **E** or the **Etiquette** will be pure. Hence, if you want the etiquette to be holy and pure, like in such a way that we have mind control then we have to follow the ABCDE process. We may find it is still difficult but it's not impossible.

So get started – let's start implementing the ABCD in your life and tell me how you feel.

Lesson to Learn
POSITIVE PRACTICES OF SUCCESSFUL PEOPLE

Ms. Sneha Bajaj
Assistant Professor – English & Soft Skills
GSFC University

To different people, success entails various things. Financial successes, such as becoming a millionaire, may be considered a success for some. It might mean recognition for some. Trophies, championships, or medals may be awarded to athletes. Some people define success as obtaining a state of wellness, health, or happiness. Whatever it means to you, please remember the ten behaviours of successful individuals listed below. They can be applied to any field or definition of success:

1. **Set Goals**
   It's unlikely that you'll ever meet a successful person who doesn't set goals because the chances of you obtaining what you desire without a clear path to follow are nearly nil. You'll end up somewhere you didn't intend to go if you don't know where you're going. Setting objectives should be at the top of anyone's priority list if they want to be successful. Define exactly what you want - your end objective - and then break it down into smaller steps - micro-goals. Make sure your 'why,' or the reason you must do what you must, is compelling. So you have the strength and purpose to keep going when you encounter those hurdles when things go wrong as they usually do.

2. **Take Responsibility**
   Another important characteristic of all successful people is that they take full responsibility for both their successes and failings in life. They never play the victim, unlike the bulk of others. They don't point the finger at others if something doesn't work out. They swiftly absorb the lesson, discover yet another method NOT to do something, and move on. Their energy is best invested in the now and in making plans for the future. "How can I make this work?" and "What can I learn from this?" should always be on your mind. Never look back or make excuses for why you aren't where you want to be. Remember that everyone who experiences setbacks has the option of blaming others or focusing on moving forward and creating a brighter future, regardless of what has occurred. What you do is entirely up to you.

3. **Self-discipline**
   They also have a high level of self-discipline. Discipline is a strong characteristic shared by all successful people, and it is one that can be strengthened over time. Self-discipline is essential for anyone who works from home or is unsupervised. Will you spend your time alone on social media, watching cat videos on YouTube, or doing something that will benefit your future? Discipline is much easier to maintain when you have clear goals and a significant purpose, which is far more vital than meaningless diversions.

4. **Self-development**
   Their obsession with self-improvement is significant. If you stop working on yourself, you can't really call yourself successful. This isn't to say you're never satisfied; rather, you recognize that it's human nature to want to learn new things and improve. Through mentors, audiobooks, and reading, be willing to learn new things and expand your thinking. You will earn more monetarily and spiritually as you study more.

5. **Read**
   Many extremely successful people prefer reading as a hobby. They are voracious readers! The majority of today's youngsters can't sit still for more than two minutes without being bored

and picking up the phone to access social media, most likely to publish about just how bored they are. Successful people, on the other hand, are nearly always content to be alone, to be alone in silence, to be capable of reading or listening to something that might improve their minds and future. If you aren't a reader, try listening to literature. You could play them in a car, in the gym, or in the shower to develop new talents and strengths while wasting time that would otherwise be spent.

6. **Time Management**
Another crucial feature is that they effectively manage their time. To be successful, you must be able to manage your time effectively. When there are too many tasks on their to-do list, unsuccessful individuals become frustrated and overwhelmed. Successful people are unfazed by adversity. They prioritize the tasks with the highest payoff and most rewarding outcomes first, and the less important chores last, recognizing that it is more important to do the most valuable tasks first. Successful people prepare ahead of time, days, weeks, and months in advance, knowing exactly what they need to accomplish to finish their duties and achieve their objectives.

7. **Take Risk**
They take risks. You cannot win the raffle if you do not purchase a ticket. You can't get large benefits if you don't take big risks. Successful people understand that taking risks is sometimes necessary to go where they want to go. Most people are afraid of failing, so they won't take those same risks. The greatest failure for successful people, though, would be regret. Take a chance on the life you desire, or settle for the one you don't.

8. **Keep Going**
Another amazing feature is that they persevere in the face of failure and setbacks. We all experience setbacks. Every person who tries to achieve their dream life will fail, and many of them will lose everything. The vast majority of the people give up, but the successful never do. They continue on their way. Knowing that a person's finest character is created in the face of adversity. Knowing that their success story is being written in real-time and that it will be much better now that they do have a comeback story to tell as well.

9. **Find a Way to Win**
Everyone who is successful usually finds a way to win. People that are successful always find a way. Whatever life throws at them, they deal with it, dodge it, smash through it, and do whatever it takes to win. It's the mentality of "whatever it takes." It's the assurance that no matter what happens; I'll give it my all and leave nothing on the table. I'll figure out a method to win.

10. **Do What they Love**
The most significant aspect of their lives is that they are able to pursue their passions. You can't call yourself a success if you're not doing something you enjoy. It is not effective living to spend the bulk of your working hours, often known as the majority of your life, doing things you despise for money. It's a source of mental anguish. If you need to endure doing something you don't like in order to get to a life you love, go ahead and do it, but don't lose sight of your 'ultimate purpose.' Discover your life's purpose. Consider all of the activities you enjoy doing more than anything else in the world. Then consider how you may turn your passions into a source of income. Every day, doing what you enjoy is a boon. Then analyze how you may turn your passions into a source of income. Every day, do what you enjoy. It will be worthwhile even if you have to take a pay decrease. You will never work a day in your life if you do what you love every day.

Innovation

ALFRESCO GREEN CLASS (GREEN CLASS)

Ms. Sneha Bajaj
Assistant Professor – English & Soft Skills
GSFC University

Alfresco Green Class – Story Writing Workshop by Ms. Sneha Bajaj

A workshop for the short story writing has been conducted by Ms. Sneha Bajaj, Assistant Professor, English & Soft Skills on 16th and 17th December 2021 in the green garden of banyan tree premises for the first-year students of BTech Chemical, BTech Computer Science, BTech Fire & EHS, BBA General and BBA Analytics in two separate groups. The students have been taught different components to develop the short story plot and other literary factors to write a short story. Here are some glimpses of the event:

A Special Session on 'Basics of Spoken English and Problem Solving'

A special session on 'Basics of Spoken English and Problem Solving' has been conducted by Ms. Sneha Bajaj, Assistant Professor, English & Soft Skills on 4th December 2021 from 9.15 to 11.30 in SoS building classroom no 5. The session has been attended by 57 students from different streams and different semesters.

Creative Corner
POEM: - I CAN I WILL

Mr. Tarang Dave
Dy. Manager - Finance
GSFC University

I can I will – I can I will

Even though lots of threats, I have many more opportunities still,

I can I will – I can I will

No one can beat me in my mission,

Nothing can break me without my permission,

I have blessings of God and elders,

And Faith has made robust my shelters,

I have faith in my own soul,

Everything will possible, which I am looking for,

Ups and downs are just part of the life,

Just like in the sky, a flying kite,

I will not afraid of from now,

I will face all challenges anyhow,

I will get rid from all the sorrow,

I would create a path that others will follow,

I will suitably deal each and every moment,

Hope they will lead me towards development,

God! please bring positivity in power of my Will,

Yeah! now I can Feel……… that "I can I will - I can I will".

****

Happening Around the World – Infolinks

Title: - The Insane Engineering of James Webb Telescope

Link:- https://youtu.be/aICaAEXDJQQ

Title: - Top 5 Medical Innovations to look for in 2022

Link:- https://youtu.be/vvWgX0JZJjk

Title: - 7 Ancient Technologies Far Too Advanced For Their Time

Link: - https://youtu.be/JoTtD3ZSueU

Title: - This Race Called Life - a beautiful inspirational short-story

Link: - https://youtu.be/bq8eOm0zEIs

Title: - Struggling with Self Discipline?

Link: - https://youtu.be/PUAyyOOAO8I

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