

JIT NEWSLETTER EXPLORE

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UPCOMING EVENTS

1st
July

National Doctors' Day

11th
July

World population day

17th
July

World Day for International Justice.

26th
July

Kargil Vijay Diwas

29th
July

International Tiger Day

OUR MISSION

To provide quality and affordable education to the less privileged sections of Indian society by leveraging all tools of modern education and to bring up such element sections to be able to find a place of dignity and distinction both within and outside the country.

FROM THE DEPARTMENTS

 **DR. SHAHID JAMIL**
PRINCIPAL, FOP

Global Warming – The Biggest Threat in 21 Centaury

Impact of global warming on Climate is the biggest challenge of current century. The reason behind the climate change and global warming is greenhouse effect. There are different types of radiations (visible light, plus ultra-violet (UV), infrared (IR)). Out of these infrared (IR) radiation is responsible for greenhouse effect, due to greenhouse gases.

The gases in the atmosphere such as, carbon dioxide (CO₂), methane (CH₄) and nitrous oxide (N₂O), are capable of absorbing infra-red radiation there, by trapping and holding the heat in atmosphere, and increasing the heat in atmosphere, in turn, is known as greenhouse gases. It is responsible for greenhouse effect which ultimately leads to global warming, of which, carbon dioxide (CO₂) is a significant component.

However, when carbon dioxide concentration increases in the atmosphere, it forms a thick cover and prevents from being re-radiated. Consequently, the atmosphere gets heated and the temperature increases. This is called green house effect. Recently, the amount of carbon dioxide has increased from 290 ppm 410 ppm due to cutting of forests and excessive burning of fossil fuels. The rate at which the amount of carbon dioxide in the atmosphere is increasing, it is expected to cause rise in global temperature.

The global warming by two or three degrees would cause polar ice caps to melt, floods in coastal areas, change in hydrologic cycle, and islands would get submerged.


If current trends continue, scientists, government officials and a growing number of citizens fear that the worst effects of global warming – extreme weather, rising sea levels, plant and animal extinctions, ocean acidification, major shifts in climate and unprecedented social upheaval – will be inevitable.

To combat Greenhouse gases induced global warning, the developed countries such as US and other European governments, created the Action plan 2013. The Paris agreement was signed by 73 countries to combat the climate change by investing in a sustainable, low-carbon future.

In 2020, as per "Nature reported: global carbon dioxide emissions fell 6.4% (13% in the U.S. alone). This was in part due to the decrease in fossil fuel combustion resulting from the switch to natural gas from coal.

Researchers around the world continue to work towards finding ways to lower greenhouse gas emissions and mitigate their effects. One potential solution scientists are examining is to suck some of the carbon dioxide out of the atmosphere and bury it underground indefinitely. This is our responsibility to control this global warming by plantation of trees.

FROM THE DEPARTMENTS

 **DR. MD. KALEEM**
 EDITOR

World Environment Day

World Environment Day is celebrated across the globe on 5th June every year. Since 1974, World Environment Day is the most remarkable day for environmental action. The UN Environment Program (UNEP) organizes events for Environment Day every year to encourage worldwide awareness and action for the protection of environment.

The theme of World Environment Day 2022 is 'Only One Earth'. The idea of the theme is to focus on the world's togetherness in the direction of creating the atmosphere conducive for peace, harmony, prosperity and health by saving the nature, and life. It highlights the fragility of the planet and is designed to re-enforce the idea that the Earth is humanity's only home. The year 2022 marks the 50 years since the first United Nations Conference at Stockholm in the year 1972 that led to the creation of UNEP and designating 5th June as World Environment Day every year.

On World Environment Day 2022, Prime Minister Narendra Modi has launched a global initiative 'Lifestyle for the Environment (LiFE) Movement' on Sunday at 6 pm via video conferencing witnessed the participation of Bill Gates, Co-Chairman of Bill and Melinda Gates Foundation; Lord Nicholas Stern, Climate Economist; Professor Cass Sunstein, author of Nudge Theory; Aniruddha Dasgupta, CEO and President of the World Resources Institute; Inger Andersen, UNEP Global Head; Achim Steiner, UNDP Global Head and David Malpass, World Bank President, among others.

World Environment Day urges all of us to protect our natural surroundings. With millions of people from over 150 nations taking part, in boosting environmental awareness and celebrating environmental action. The day aims to focus on the importance of the environment and to remind people that nature should not be taken for granted as we all need to protect our mother earth.

We here at JIT also celebrated World Environment Day on 06 June 2022 to boost environmental awareness among faculties & students. We marked this event with Plantation Drive in the Campus, Poster making competition and Environment Awareness March comprises of both teachers and students. The students were eagerly participated in the event. They brought plants from their homes for the plantation drive. One of the student Vishal, B. Pharm 1st year demonstrated his machine based on electronic sensor for Saving Water.

 **MR. MOHD VASEEM**
 ASSISTANT PROFESSOR, PHARMACY

Physiological Effects of Curcumin

Turmeric (*Curcuma longa* Linn) is an herbal medicine which is traditionally used as a spice, food colouring or flavouring agent and widely used for several diseases such as biliary disorders, cough, hepatic disorders, rheumatism, wound healing, sinusitis, diabetes, cardiac disorders and neurological disorder. It belongs to the Zingiberaceae family. Turmeric is a popular domicile remedy used in Indian food, is mainly a native of south-east Asia, is widely cultivated in India, Sri Lanka, Indonesia, China, Jamaica, Peru, Haiti and Taiwan and it is very less expensive. Curcumin is the main principle of turmeric. Curcumin has shown various biological properties pre-clinically and clinically. Curcumin is a highly pleiotropic molecule which can be modulators of various

intracellular signalling pathways that maintain cell growth.

It has been reported as anti-inflammatory, anti-angiogenic, antioxidant, wound healing, anticancer, anti-Alzheimer and anti-arthritis and possesses an excellent safety profile.

All previous review articles on curcumin have collected the biological/pharmacological activities but this review article summarises the most interesting in vitro and vivo studies of curcumin on most running diseases around the whole world.

 **MR. SYED MEHDI HASAN ZAIDI**
 HOD, FOP

India's Position in Global Active Pharmaceutical Ingredients (API) Market

Active Pharmaceutical Ingredients (APIs) are the founding block of strategic architecture in the pharmaceutical value chain. More importantly, APIs provide therapeutic effect of a medicine and, are, therefore, the central innovation and, more often, the critical intellectual property that drives the industry.

The Indian pharmaceutical industry ranks among the top five in terms of production volume, accounting for approximately 8.5% of global output. Turnover has increased from approximately US\$ 0.3 billion in 1980 to approximately US\$ 18 billion last year, with an estimated global market value of US\$ 53 billion.

Low labour costs and innovation are two major factors driving this growth. India is the Asia-Pacific region's third largest active pharmaceutical ingredient (API) market, with China as its main supplier.

Dependence on China for APIs has been a big concern for the Indian pharma industry. From 0.5 per cent in 1987, the percentage of API imports from China shot up to around 78 per cent in 2020. India imports approximately 55 per cent of its API needs, and almost all imports are from China. Scale, subsidies, cheaper capital with cost of four-to-five per cent versus 12-15 per cent in India, lower logistics cost (0.9 per cent versus four per cent in India), cheaper power, all work to China's advantage.

Several Indian companies have moved their requirement of APIs, KSMs (key starting materials) and intermediates to Indian manufacturers who have ramped up their capacity rapidly to cater to this uptick in demand. Nevertheless, the dependence on China for basic chemicals continues.

Post COVID, the Indian pharma industry is at an inflexion point. It is envisaged, that the contribution of pharma to the GDP will grow to 4.5-5 per cent from 1.8 per cent, at present.

Pharma is one unique sector where the consumer is not the decision maker and the decision maker is not the payer. It is unique in another sense, that there is no product obsolescence. Aspirin, paracetamol and metformin still continue to be gold standards of front line therapy. Hence, scale, quality, compliance and process excellence shall drive growth.

China and India are driving the market growth through their cost advantages and have emerged as manufacturing hubs for the APIs. With government support, improving IP systems and manufacturing standards in China & India, APIs market in Asia-Pacific is expected to grow steadily in the coming years. In the near future India may beat China in global active pharmaceutical ingredients market.

STUDENT'S CORNER

 **MOHD. ZAID**
B. PHARM-III

WHY YOU'RE NEVER SATISFIED

What do you want more than anything right now?

Maybe you'd love to upgrade your smartphone to latest snapdragon 855+. Drop off the college to pursue a creative passion. Or finally own your own home.

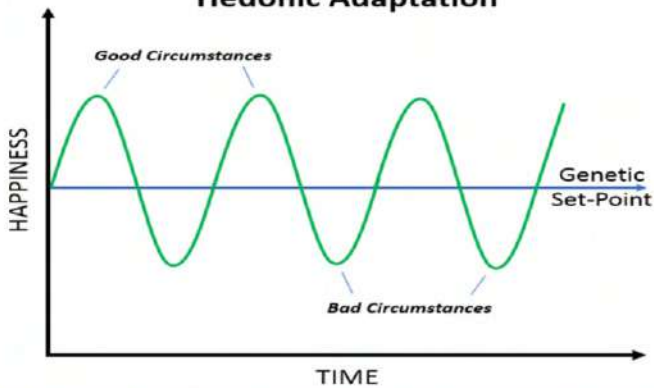
Goals like these drive us to improve our lives. But we've got bad news. Getting the stuff you've always wanted won't make you happy. Or at least, not for as long as you hope.

That euphoria you feel when you reach a goal or accomplish something great – it has a shelf life. Whether it's getting a promotion, buying your first house, or reaching 10K subscribers, eventually that achievement will start to feel...normal.

It's all thanks to something called "hedonic adaptation" (or the "hedonic treadmill")



Hedonic Adaptation



Basically, we're hardwired to return to our natural baseline level of happiness no matter what. Hedonic adaptation is why:

- ☒ Most people who win the lottery return to their original levels of happiness within a year.
- ☒ "Just married!" eventually turns into "Just...married" after a couple years.
- ☒ Dropping your phone into the toilet sucks – only until you get it replaced.

Hedonic adaptation makes it easier for us to bounce back from loss or disappointment. But, over time, it also dulls the shine of our success – no matter

how big or "life-changing" it is.

As Daniel Gilbert says in his book *Stumbling on Happiness*:

"Among life's cruelest truths is this one: wonderful things are especially wonderful the first time they happen, but their wonderfulness wanes with repetition.

If this all sounds super depressing, it doesn't have to be. While we may not be able to escape hedonic adaptation completely, we can curb its negative effects.

Instead of chasing the next happiness high, pursue your goals with a more present and grateful mindset. Here's how:

1. **Buy less stuff.** Research has repeatedly shown that experiences are more valuable than possessions. Instead of buying that fancy 60" inch smart TV, purchase a membership to your local library, or take a road trip to visit a friend.
2. **Slow down and savor things.** Enjoy your dal-chawal at lunch. Actually taste the spices. Don't mindlessly eat, it while you check email.
3. **Shift your perspective.** Imagine what life would be like if you lost the things

you take for granted. Your "dumb" job. Your "boring" hobby. Your "old" Laptop. Realizing just how good you have it can be a great antidote to hedonic adaptation's pull.

4. **Make gratitude a habit.** Regularly counting your blessings can help you focus on the happiness right in front of you, instead of what may (or may not) be over the next horizon. Keep a *gratitude* journal, use a notes app, or write an actual thank you card. Then mail it to an actual person!

It's OK to have big, ambitious goals, we all do! But where you are right now, is pretty awesome too. Step off the treadmill and enjoy it!

 **MOHOMMAD REHAN**
DIPLOMA - II EE

MY JOURNEY IN JIT

I am 20 year old, and I study in Jahangirabad Institute of technology, doing Diploma in Electrical Engineering.

Jahingirabad Institute of Technology is one of the premier institutes in Barabanki.

My experience with the library, reading room, gymnasium and mess services has been very good.



Educators and faculty members have been very good in explaining the topics efficiently by utilizing modern techniques. Their friendly nature has also helped the learning experience.

The students have a diverse background as there are students from Nagaland, Bihar, etc., and that has helped me in being open minded and understanding of new cultures.

Many students got placed in companies like Flipcart, Wipro etc.

A lot of facilities have been provided here which have helped me grow, and I'm grateful for that.

I am very happy with my experience, and request all students who are seeking courses to learn by my experience and pay a visit sometime.

I believe you will succeed , best of luck for your future.

Thanks a lot JIT!

 **SYED AHMAD RAZA**
B. TECH-I



STUDENT'S CORNER

 **SURJEET KUMAR**
B. PHARM-II

ENVIRONMENT: THE BASIC LIFE SUPPORT SYSTEM

The Environment and Its Impact on Life

The environment is the basic life support system for all living things on planet Earth. It is a combination of natural and human-made components. Natural components include air, water, land and living organisms. Roads, industries, buildings, etc., are human-made components. The natural environment can be differentiated into four main components – Biosphere, Lithosphere, Hydrosphere and Atmosphere.



Every living thing depends largely on the environment for survival, and having a clean and safe environment is solely in the hands of the human beings.

What is environment?

Environment basically refers to the surroundings you are in. It is the most fundamental support system for all forms of life on planet Earth. The environment provides us with the basic necessities of life such as food, water, air and shelter.

How do we protect the environment?

Protecting the environment depends on every individual's attitude towards it. In order to protect the environment, we can start conserving water, using all resources effectively, educating oneself and others about the urgent need to preserve the environment, planting trees and so on.

What are the initiatives taken by the Government to protect the environment?

The Indian Government has taken various measures with a view of protecting the environment and preserving it for our future generations. Some of them are Project Tiger, Swachh Bharat Abhiyan, Green Skill Development Programme, Special Purpose Vehicle for Afforestation, Clean Development Mechanism, Fly Ash Utilisation Action Plan, etc.

 **ARCHITA AGARWAL**
B. TECH-III CSE

MOTHER

Mother our first teacher, first love, first habit, first need. The great word **"Mother"** means that love and care. No one can imagine her/his life without a mother even the president of the country. Everyone needs the mother because her love is always unconditional or devotional. Mother is the backbone of the family; she devotes her whole life for family without any care or expectations. She never thinks for itself.



According to scientific research, do you know that At the time of birth the pain she bear is more than 206 breaking bones of humans at the same time. We in this world a given so much pain to our mother. A lady who always wants the success of her child.

During the 'Question and Answer' round in the MISS WORLD 2017 pageant was asked **"which profession should receive the highest salary in the world?"** Responding to the same, Chillar answered, **"A mother's profession should receive the highest salary and respect in the world."** From this answer Manushi Chillar was the winner in the MISS WORLD 2017 round.

We are identified with our mother. We should always give the respect to the great lady who gives the birth with the too much pain. A lady who always gives support to her child in any condition without any expectation. **"God could not be everywhere and therefore he made mothers"**.

It is very sad that some people do not respect their mother because they don't realize the value of this woman. We are so blessed because we have a mother and always be proud of such a lady.

 **FAIZ KHAN**
BCOM-1

SHOULD WE ?

What is all that we hear every day ?
Respect your elders, respect their ways .

Now , who shall question what they say ?
They can use their intellect but nay.

Parents are the one who we should obey,
For them and only them do we feel and pray .

How are things at the end of the day ?
For one , not all, remain okay .

How a lot is twisted and turned by them'.
What else shall be expected with them at the helm ?

It is completely fine for them to make mistakes,
But in the end , after all there should be some change .

One who follows the elders blindly, just like the flock of sheep,
Don't worry at all, you are in good hands, but later you shall weep .



 **ALISHA BANO**
BCOM-I



EVENTS



JIT CELEBRATES WORLD ENVIRONMENT DAY

World Environment Day was organized at the JIT Campus on June 6, 2022, where students and Faculty members participated in plantation drive of various trees and plants. This day reminds us the importance of keeping our environment clean and green, for a healthy present, and future. The students of different schools of JETGI actively contributed to the great cause of saving our planet, highlighting the importance of planting trees.

A poster/chart presentation competition was also held, in which students presented their expressions, regarding making earth a better place for all human beings, to live.



A DAY TO EMPHASIZE IMPORTANCE OF YOGA

International Day of Yoga was observed at the JIT Campus on June 21, 2022. The students and Faculty members participated in the event, and performed some 'asanas' of yoga. It was encouraging to see the enthusiasm of the students doing yoga. Dr.A.A.S.Ghazi, Principal (Engineering) and Dr. Shahid Jamil, Principal (Pharmacy), attended the event, and participated in doing yoga, with the students.