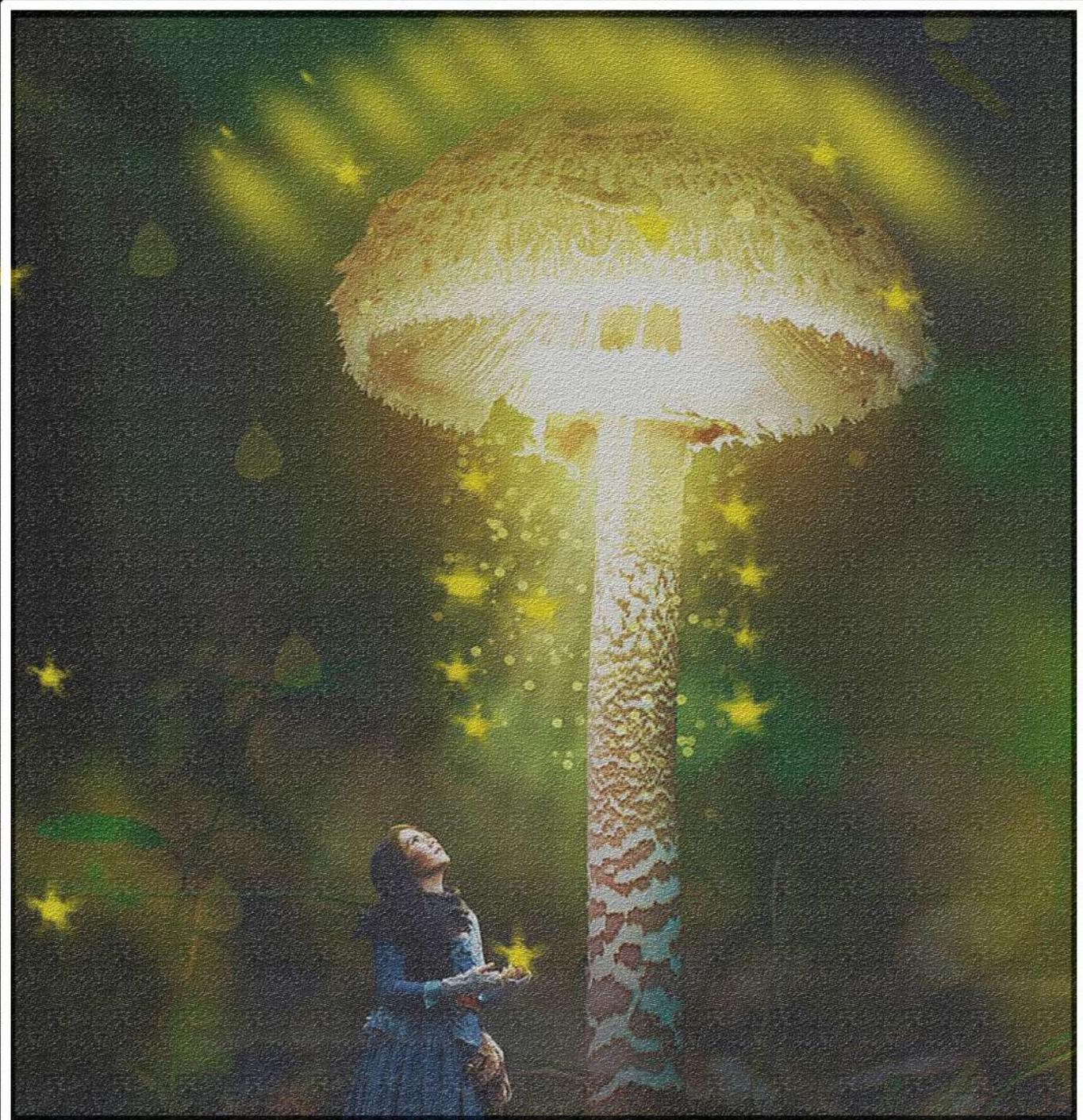




NEHRU COLLEGE
OF ENGINEERING & RESEARCH CENTRE
NAAC ACCREDITED | ISO 9001:2015 CERTIFIED INSTITUTION



**COLLEGE
MAGAZINE
2021**

MUSHROOMS

■ ARTICLES ■ POEMS ■ STORIES ■ DRAWINGS ■ PHOTOGRAPHY



സമർപ്പണം



നെഹ്റൂ ഗ്രൂപ്പ് സ്ഥാപകൻ

ശ്രീ പി കെ ദാസ്

അവർകളുടെ ഓർമ്മകൾക്ക് മുൻപിൽ



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Mushrooms
COLLEGE MAGAZINE 2021



Cover Art : Suvarna R

Designs & Layout : Sachin K M



INSTITUTION VISION

To mould true citizens who are millennium leaders and catalysts of change through excellence in education.

INSTITUTION MISSION

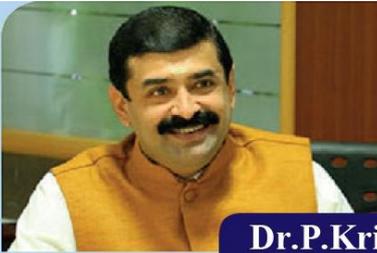
NCERC is committed to transform itself into a center of excellence in Learning and Research in Engineering and Frontier Technology and to impart quality education to mould technically competent citizens with moral integrity, social commitment and ethical values. We intend to facilitate our students to assimilate the latest technological know-how and to imbibe discipline, culture and spirituality, and to mould them in to technological giants, dedicated research scientists and intellectual leaders of the country who can spread the beams of light and happiness among the poor and the underprivileged.

Messages



Adv. Dr. P. Krishnadas
Chairman & Managing Trustee,
Nehru Group of Institutions

It's a matter of great pleasure and satisfaction that the College is coming up with another magazine Mushrooms2021.. I wish you all the best



Dr. P. Krishnakumar
CEO & Secretary

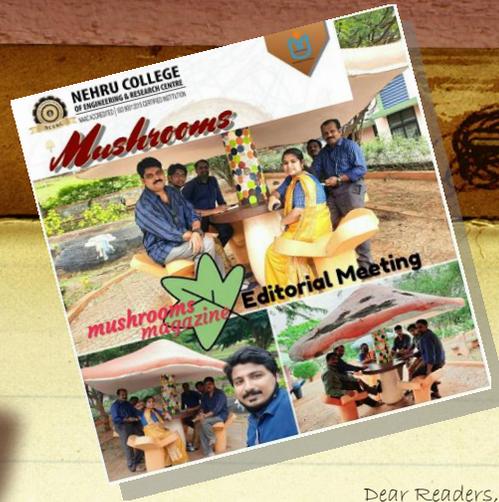
My appreciation to all who have compiled the literary projects of Mushrooms2021.. all the best



Prof. Dr. Ambikadevi Amma.T
Principal, NCERC

Happy to note that Mushrooms2021 has channelized the creative talents of NCERC team.. Wishing you all the very best

EDITORIAL



Dear Readers,

It is indeed a great honor to be the Staff Editor for the Mushrooms and it is an immense pleasure to launch this edition for 2021.

In this issue, we will recount the various creative modules and activities in which NCERC family members were actively involved during 2020-21.

A huge thank you to all the persons who contributed writing the wonderful poeries and inspiring articles and beautiful artworks, without which there wouldn't have been this magazine.

Last but not least, We would like to thank NCI Management, Principal, Faculty team and Staff of NCERC for their everlasting support throughout the creation of this edition.

As we Mushrooms, the world is still on confusing situations, but let's not miss our hope. We must all stay well. Please look after your mental health and be supportive of others. We must continue to stand together to tackle what is the greatest public health challenge of a generation.

Together, let's Break-the-Chain.!

Happy reading..

Dr. Sudheer Marar

Dr. Jojo George

Executive Editors



BLACKHOLE AND DARKMATTERS

CONCEPT OF BLACKHOLES AND DARK MATTERS



What we can observe in our sky – planets , stars, gas, dust, galaxies, nebulae, asteroids, meteors and more – is a small fraction of what exists. Bright matters, the visible stuff of the universe, forms only about a sixth of its mass. What forms the rest, and how do we know it's there?

Scientists know there must be more out there than meets the eye because the unseen substance have gravity and appears to be holding together the parts of the universe that we can see, galaxies in particular. Because the unseen matter does not emit radiation, scientists call it dark matter.

Believed to constitute about 95% of the universe's total mass, dark matter and dark energy may comprise unfathomable numbers of tiny atomic particles and subatomic particles. Candidates for dark matter include cold dark matter (CDM), sluggish elementary particles: weakly interacting massive particles (WIMPS), heavily hypothetical particles that rarely interacts with other matters; and massive compact halo objects (MACHOS), known objects such as planets, neutron stars and white dwarfs that are presumed to be in the holes of galaxies.

MUSHROOMS



WHAT IS A BLACKHOLE?

A blackhole forms when a large, dying star collapses. The gravity created by this condensing matter completely overpowers any outward forces; including light. Although , a blackhole emits no light; its presence is detectable by radioastronomy equipment. Its extremely strong gravitational pull sucks gas and dust towards itself, forming a whirling accretion disk around the hole. The disk heats any matters that crosses it, emitting x-rays (opposite).

TYPES OF BLACKHOLES

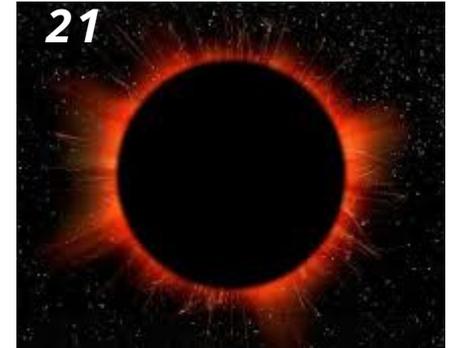
1. **STELLAR MASS** Formed from collapsed cores of giant stars. Mass few times greater than that of Earth's sun.
2. **INTERMEDIATE MASS** 100 – 10,000 times more massive than Earth's sun. Only a few identified and confirmed.
3. **SUPERMASSIVE** Largest type. Inhibits cores of galaxies. Forms a few million to a few billion times larger than sun.
4. **PRIMORDAL BLACKHOLE** Smallest type. Formed in the early universe, soon after the Big Bang.

DARK MATTERS:

Unknown substances detected only by the gravity it exists; makes up most of the universe's total mass.



AARATHI P
FIRST YEAR BTECH COMPUTER
SCIENCE AND ENGINEERING



WHAT IS A WORMHOLE?

A highly speculative idea of modern astrophysics, wormholes are theoretical possibilities allowed within the mathematical framework of Einstein's general theory of relativity. A wormhole is a short-lived portal, lasting only a brief moment, that joins two blackholes in different locations.

Wormholes could connect two points in the present day universe or perhaps, in different times. In wormhole theory, matter falling into a blackhole at one point should emerge through a proposed "white hole"- the reverse of the blackhole- at the other end.

Neither wormholes nor any evidence of them has yet been observed. Scientists cannot determine how they would be created, although astrophysicists such as Hawking had continued his working on this intriguing notion till death.

ഇനിയൊരു ദിനം കൂടി കൊഴിഞ്ഞിടണം...

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 ഈ രാത്രി പുലർന്നിടണം..



Anjali V
MCA

WOMEN SAFETY

Women safety in India is widely discussed everywhere nowadays. The crime rate is on the spike women are neither safe outside nor at home. There are laws but there should be proper safety measures which we have to follow strictly to protect the women from violence. Women are caged in the houses previously but urbanization forces them to break these jails and show their talent to the world. Women showed their talent in every sector.

Dowry death is an ultimate form of murder. Acid throwing is a form of violent assault which ruin's the girl's life. 'Cheat in a relationship' is the other commonly found crime against women. A man easily breaks up with his wife and starts a new life with another bride. women think twice before stepping out of their homes. this is, unfortunately, the sad reality of our country that lives in constant fear. woman in India have been equal rights as men however people do not follow this rule.

We can take measures to ensure women's safety. Firstly the government must take stringent laws that ensure the punishment of criminals immediately. Most importantly men must be taught to respect women from an early age. There is plenty of handy equipment available in the market which will provide assistance at the time of emergencies. Precautions are always better than cure! To protect women from domestic violence. 'The parliament of India' passed 'The protection of women from Domestic Violence Act 2005'. "The best protection any women can have is courage" – Elizabeth Cady Stanton.

LEADERSHIP QUALITIES EVERY INDIVIDUAL SHOULD HAVE

DR. SHEELA SRIVASTAVA - DIRECTOR -
NEHRU SCHOOL OF MANAGEMENT, HEAD -
TRAINING AND PLACEMENTS - NSM & JBS

One of the most important qualities of an effective leader is the ability to calmly assess a situation and solve problems under pressure. Leadership qualities will give the opportunities to acquire influential positions and become decision makers. The following are the important traits of modern day leaders.

·Willingness to listen

Listening is one of the most important leadership qualities for MBAs. It gives leaders the opportunity to engage directly with their employees and make decisions that feels justified. It creates trust and respect among employees towards leaders.

·Ability to coach

Today's world Coaching has become a key leadership quality, Being a leader you need to see the best in the people, see their strengths and place them accordingly to the suitable positions

·Giving and receiving feedback

Giving and receiving feedback is an important skill for leaders to improve self. When the hierarchy level grows accessibility with the employees and subordinates will be reduced. A leader should always strive to collect the feedback from all the stakeholders on continuous basis.

·Being supportive

People always want to follow a leader who is being supportive, being a good coach, and being a good listener. A leader must be positive, always available, and support the employees.

·Understanding the benefits of self-reflection

The busy life of a leader doesn't always permit him to sit and think. But it is essentially needed for self improvement and to unlock the true potential. Learning to acknowledge, accept, and improve from mistakes always help leaders to combat difficulties.

THE DEAD LEAF

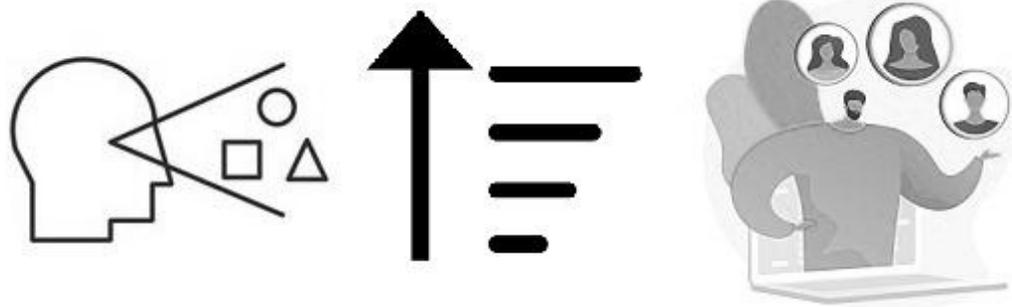
Jishna T R, ECE

I flittered like a grey leaf
In and out of people's lives
Like the waves of the ocean
The people never knows I'm here for them
Until I take my footstep backward
My connections are not too deep
Because I am afraid to lose what I have
Don't worry if you notice I'm gone
Really, I was not there
I never meant to stay with you people
But I know that you guys never miss me long
I will be forgotten in a blink
Ashes will never burn you
When I leave, I will step into the dark
Darkness is nothing, but reality
Where nothing can be hidden only everything is merged



THE 3PS FOR OUR LIFE

Perception-Priority-Positioning



Dr. Sudheer Sankara Marar, HOD-MCA-NCERC

We pretend to live in an ultramodern world, where some serious discussions are still on board, chatting about the philosophical and religious contemplation of life and existence, about scientific inquiries on consciousness and social happiness. When many members of the Scientific and Philosophical communities think that science can provide the relevant context, and set some parameters necessary for dealing with topics related to the meaning of life, there are Researchers in positive psychology who study various empirical factors that lead to life satisfaction and devise the Activity engagement theories thereby making a fuller contribution by utilizing one's personal strengths.

The Neuroethics: a modern-branch of interdisciplinary research, collects data about human ethical decisions and has shown that many types of ethical judgment are universal across cultures, suggesting that they may be innate, while others are culture specific. In the meantime, Sociology through its leading theories like TMT, states that human meaning is derived from a fundamental fear of death, and our values are selected accordingly.

Many Religions including Christianity, Islam, Sikhism, Judaism, Zoroastrianism and Hinduism tried to define life theories spiritually based on God, Universe etc. The Buddhism has a slim deviated angle where it speaks less about "the meaning/purpose of life" and key-focus is on the potentials of human life to end suffering and attain Nirvana.

In modern-world, (yes.. I mean the world we live in!!), we all are busy in devising answers for the queries like. Is life about making money and raising a family? Is it about "making a difference" or "following your heart"? Is there a reason we are all here? We have a plenty of Spiritual Gurus, Corporate Mentors and even Life-Coaches to answer us. And, it is in this context, we try to address the same question through 3 Simple Ps.

We have heard from the Legendry Writer-Critic George Bernard Shaw that "Life isn't about finding yourself. Life is about creating yourself ...". Yes, the Life is all about creating yourself. May be this is not a principle everyone subscribes to and acts on. There are many people who believe they have been created with certain attributes that determine who they are and what they will become. They may have decided they are by nature one way or another. Or, they may have allowed other people to define and shape their opinion of what they can and cannot do.

But let's twist the angle to redefine this context.

Respecting all religions, preserving our reverence for all existing beliefs of this universe let's consider "Life is About Creating Yourself" to be a Call-to-Action for all of us. It is about realizing that we have the ability to craft and shape who we are and what we experience in this world (P1: The Perception). We have the ability to decide the precedence of our beliefs, thoughts and actions and absorb those things around us by this preference benchmarking system (P2: The Priority). We get to choose how we will arrange on our desires and interests and organize our actions accordingly, so as to build our Social Identity and ultimately become that person we envision and desire(P3: The Positioning).

Materializing 3Ps..

(Perception – Priority – Positioning) may not be that easy—and it's not comfortable, Remember, We are all trained from birth to make safe, reliable choices., In school we are encouraged to conform and not to color outside the lines; in business we are comforted by "blueprints" and case studies. The media shows us how we should dress and whom to emulate. Break all these laws, and think outside the box.. Perhaps, all you need is to find what it is that you want to create: A-New-You!.. End of the day., life is all about finding the revelation of yourself, and then creating it, consequently. This boils down to a frank reality, that we all actually do have the ability to create ourselves. We just have to find a way to believe in that alternate views and act on it, and perhaps my 3Ps, is just one, among many such simple ways to accomplish this..

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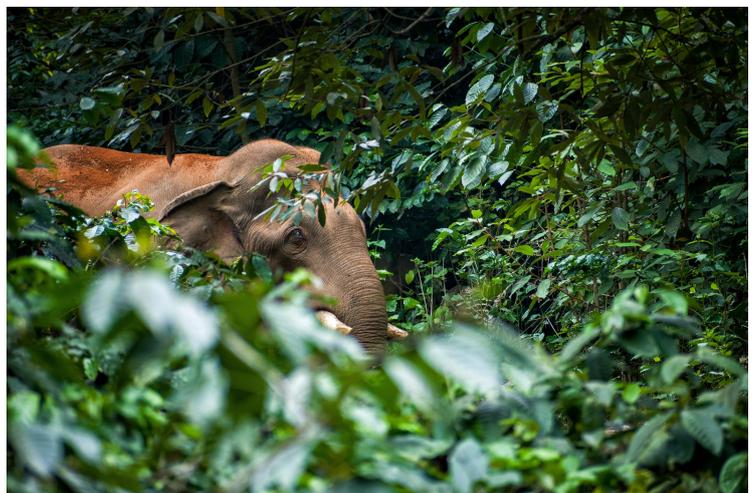


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ANANDAN NAIR P
S3 MECHANICAL

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