



Connecting Thinkers...



This issue of Thinklet comes out perhaps during the most trying times of our lives. India, along with many other countries in the world, is in the midst of a national lockdown to combat the spread of the COVID-19 virus which has affected 199 countries and territories till now. As numbers of positive cases increase with every passing day worldwide, it is important to not get sucked into the negativity and panic of the spreading pandemic but instead focus on staying calm and safe. Schools and colleges worldwide have shut down and institutions and students with access to e-learning tools are carrying on with their academic timelines online as much as it is possible. More than ever before, this is a time for all educationists to rethink the importance of blended learning and the future of digitised education. We, at JAIN, have only used this challenging time to leap-frog into that direction.

Our challenge lies in the fact that just one-fourth of India accesses the internet. Working on bridging the digital divide would need to be an important focus. Thus continuing digital education and 'work from home' is a luxury for a few, and it is the poor rural masses, the daily labourers, the marginalised living on the periphery like slums who are the worst hit. It is during critical times like this that concepts of class and caste spring out from our social science textbooks and stare at us right under our noses. Unfortunately, the economic pandemic will be the bigger one playing out.

The irony of fate has been such that a country of the stature as the United States of America, till now, is the one worst hit. The Washington Post in a recent article titled, 'The Great American Migration of 2020: On the move to escape the coronavirus', speaks of this "deeply disruptive time, millions have been on the move, a mass migration that looks urgent and temporary but might contain the seeds of a wholesale shift in where and how Americans live. College students and young adults are on the interstates, heading home to repopulate their parents' empty nests. Middle aged people have been heading to their parents' retirement communities." Meanwhile Indian media is highlighting the situation where migrant workers are left with no other choice but to walk back to their native homes in villages from the cities where they used to work. The 'virus refugees' are here to stay.

It is as though the Earth is rebooting, restarting its system as it had sent us enough warning signs to slow down which we humans paid no heed to. So in reply it has shut itself down and is forcing us all to relook at ourselves, our lifestyles, our goals and choices. We are but just a miniscule speck in the universe, and this galaxy will go on. So let's stay positive, have faith in the nurturing force of nature and keep our eyes on our daily goals and productivity.

Inside this Issue	
<i>Guide's Column</i>	<i>Pg 2</i>
<i>Article by Suveditha S. and Poetry by Tulsi Chhetry</i>	<i>Pg 3</i>
<i>Article by S. Sivaram</i>	<i>Pg 4-5</i>
<i>Article by Amartyya Chatterjee</i>	<i>Pg 5</i>
<i>Poetry by Krishna Murari</i>	<i>Pg 6</i>
<i>Article by Baisakhi Debnath</i>	<i>Pg 7</i>
<i>Ph.D Awarded List</i>	<i>Pgs 8-9</i>
<i>Report on Alumni Meet</i>	<i>Pg 10</i>
<i>Alumni Achievements</i>	<i>Pg 11</i>
<i>Achievements and Publications</i>	<i>Pg 12</i>

Guide's Column



Solar Power - Clean and Unlimited Source of Energy

Solar power is usable energy generated from the sun in the form of thermal energy. Solar energy is captured either directly using photovoltaics (PV), indirectly using concentrated solar power, or a combination. While photovoltaic cells convert light into an electric current using the photovoltaic effect, concentrated solar power systems use lenses or mirrors and solar tracking systems to focus a large area of sunlight into a small beam.

The rapid proliferation of solar power nationwide and globally has also led to parallel growth in several adjacent areas, notably, energy storage systems and electric vehicles. Knowing that solar panels will produce power only when the sun is shining, storing the produced energy throughout the day for use at a later time is also very important. For instance, solar-plus-storage solutions work for all scales of solar panel installations and provide many added benefits.

The very reason why sunlight is available openly in abundance is so it can be utilised to the maximum extent.

Electric vehicles with lower maintenance costs, lower fuel costs, and a lower environmental footprint than traditional internal combustion engine vehicles are a secondary product poised to ride the wave of solar energy adoption. As we know, electric vehicles are set to be an important part of the automobile industry in the coming years. Though, solar energy is currently used for many applications, the full potential of using it to the maximum possible level is still not understood. Cost of solar energy, compared to the fossil fuels is a major concern why people still hesitate to go for it. Though governments across the country give subsidy for installing solar panels for domestic and other use, initial investment on the panels is still a major concern. Therefore, there is a wide scope for researchers, to focus on developing cheap materials, which can bring down the cost of solar panels.

It is high time to realise that the very reason the fossil fuels are kept deep under the earth is due to the fact that when they are mined and used, they will pollute the environment. The very reason why sunlight is available openly in abundance is so it can be utilised to the maximum extent. Neglecting the solar energy will only bring down life on earth.

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How a 26 to 32kb Single-Strand RNA Virus Changed the Scenario Worldwide!!

When I started my research in Plant Virology, a most common question was “There are many Virologists worldwide and you people keep on finding new strains; you are also going to follow the same. Why don’t you all find a cure for ones existing?”

Here is the answer:

We all are experiencing how a small virus changed the scenario worldwide! Closures of temples, churches, and mosques. Neither God nor any political party could stand against the complicated assemblies of molecules (viruses). So powerful is the virus and equally challenging when compared with other pathogens. Virus Research is not so easy! There are many virologists who are working on the management aspects trying to find a cure. But then, virus surprises us with a mutated genome which may be more powerful and invasive. So we have to start from scratch again.

To add on, plant virology is even more challenging. Our patients don’t speak, you know! Based on the plant symptoms one has to work towards the cure. Agriculture being the main occupation in countries like India, viral diseases provide a major challenge. Climate change and human population pressures are driving rapid alterations in agricultural practices and cropping systems that favour destructive viral disease outbreaks. Deploying integrated, smart, and eco-friendly strategies is required to advance virus disease management which is time consuming and challenging.

So keep calm and respect a Virologist!!!

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अन्तर्द्वन्द

इश्क मजाज़ी इश्क हकीकी से कुछ आगे बढ़कर
मुझे अक्सर दिखती है - आंतो से झांकती भूख,
और दिखता है
शहर के अंत में कूड़े के ढेरों पर
बच्चों का गिद्धों से लड़ना,
सोचना गर कुछ कम कर भी दूं
पर आंखें खुली रखना जीने की मजबूरी है
इसलिए यदा कदा सड़कों के किनारे चलते
दिखती है बड़ी सी नाली के पास वाली बस्ती
जहां से गुजरते हुए आप और हम अपनी
जेबों में रुमाल टटोलते हैं,
नाले का काला पानी आधुनिकता का प्रतीक,
नाले का काला पानी बस्तीवालों के जीने का रंग
अन्तर्द्वन्द!
क्या मैं भी बेबसी की एक शॉल ओढ़ लूं?
या सोच पर लगा दूं एक पूर्ण विराम!
या डालूं हाथ उस मधुमक्खी के छत्ते में
जहां खट्टरधारी शहद का आनंद ले रहे हैं।

अन्तर्द्वन्द कविता एक विचार है, एक दंश है समाज के उस वर्ग पर जो स्वयं को शासनतंत्र का मुखिया कहता है। बेहाल, बदहवाश सी जनता के दुखों से उसका कोई सरोकार नहीं, उसे बस प्यार है तो सत्ता से, कुर्सी से। This poem is a viewpoint, a stinger towards the governors/ rulers of society.

They do not care about the suffering, and conditions of the common people. Their only love is power.

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Meaningful Learning for Researchers from COVID-19

“For a long time, I thought a good scientist was someone who knows everything about their own subject, but during my journey from a project assistant to a scientist, I realized that I was wrong: scientists have to rely on each other.” – **Shipra Jain**, Atmospheric Scientist

“The novel coronavirus outbreak has exposed a lack of global research on ways to combat the spread of infectious diseases, with health authorities failing to learn lessons from previous flare-ups.” – **Experts**

“Too often, the surge of research attention and investment that novel outbreaks generate quickly wane when those outbreaks subside, and other priorities take their place.” – **Jason Schwartz**, Assistant Professor at Yale's Department of Health Policy and Management

As the global situation on COVID-19 unfolds with each day, dawning with a new sense of hope and a regrettable sense of scare, this world has many valuable lessons to learn. As the pandemic evolves, our expertise is advancing on how we can deal with such epidemics. We, as researchers, have many lessons to learn from this adverse event. No other lesson could come as close to the need for improved cooperation among the research community and the significance of interdisciplinary research (IdR). COVID-19 has either directly or indirectly impacted so many domains. Starting from leadership, administration, infectious diseases management, and emergency response, the list is growing with each passing day. Not surprisingly, the focus is now moving towards pharmaceutical, genetic research, and exploring traditional alternative medical practices. Social media proves to be very useful for cautioning and to avoid spreading the pandemic, despite doomsday prophecies doing the rounds.

Unlike many countries, India has so far witnessed responsible consumerism that reflects well on the behavioural psychology quotient. Impact of the pandemic on urban communities, food chain, travel and tourism, stock market economy, sports, and entertainment are enormous. Nevertheless, the people's responses are commendable. The AI experts are already working on predictive AI modeling for the next pandemic. Intriguingly, self-imposed restrictions resulted in an advantage as the Centre for Research on Energy, and Clean Air shows that emissions dropped by 25 per cent. Consequently, the adversity has echoed the potential of IdR.

Starting from the leadership, administration, infectious diseases management, and emergency response, the list is growing with each passing day.

Below, this article aims at providing an orientation about where all we could possibly focus, so we take note of crucial elements that might be useful for our research. Based on the learning of this pandemic event, the following can be derived as some of the essential features (categorized into three areas – Process, People, and Performance) that characterise a practical approach for pursuing IdR.

Process

- Establishing an interface framework among researchers where methods can be discussed, data can be analysed, and relevant inferences can be drawn across disciplines
- Stepping up the use of contemporary tools and techniques employed in big data, data science, data analytics and machine learning algorithms for improving reliability of results and repeatability of analysis
- Using both qualitative and quantitative approach (mixed methods research) so drawing conclusions in a societal context is more realistic

People

- Agreeing on a commonly accepted communication protocol so barriers can be traversed
- Devising a working model that ensures sustained interactions and coordinated efforts

Performance

- Implementing a robust mechanism for feedback-loop (iterative seeking and action)
- Reporting on predefined set of KPI metrics (at least on three crucial dimensions of originality, significance, and rigour)
- Leveraging benchmark research best practices that can provide a common platform for IdR – for example, UK's Research Excellence Framework 2021 and Research Policy Framework Document jointly developed by AICTE and Clarivate Analytics are useful references

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Dance as a Medium of Communication

The concept of my Dream project is shaped in DANCE COMMUNICATION. In Natyashastra it was written:

Yato hasta stato drishti

Yato drishti stato manah

Yato manah stato bhavam

Yato bhavam stato rasas

Meaning, where the hand goes the eyes should follow, where the eyes are the mind should follow, where the mind is the expression should be brought out, where the expression there the *rasas* or the flavour will be experienced by the audience.

Yes, that thought came to me and knocked on my door as 'Dance as a means of Non verbal communication' which may help to create proper communication towards the audience. In a broader way, we dancers are playing the vital role as communicators who create a message through gestures, signs, movements or facial expressions and the audience receives the message by watching our dance.

In my experience, when we as performers, are invited by another country to represent India, they might understand the universal language of dance without any language barrier. I represent Kathak which means a storytelling art form among the Indian classical dances. As a dancer, I dance through my soul, just like playing a character of Radha who is playing rasa with an invisible character Krishna.

Whatever the story we depict, we play a role of a character, as a mono artist we intraform the character inside our soul, after creating the image inside we project through our body, hand and foot movements and through expressions. Through the communication of interform level of showcasing and lastly the audience again takes it as simple form of acceptance and intercirculate in their minds though applauding and cheering. These are the three words I want to coin 'intraform', 'interform' and 'intercirculate' in the Dance Communication Model. These are actually the bold terms for a dancer to communicate with their audience.

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नारी अब तो सबला है

Woman is now Powerful and Competent

अबला का मिटा लेबल हमने
जीना अब तो सीख लिया।
जिन रुतबों पर मर्दों का कब्जा था,
उनपर हमने अधिकार किया।
सौ सालों की कोशिशों के बाद
हम इस मुकाम पर पहुंचे हैं।
लेकिन जंग अभी भी बाकी है,
अभी बस आधी दूरी तक पहुंचे हैं।
सदियों से जिस नारी को
समाज मानता था अबला,
अब जाना उसकी ताकत को,
हर एवरेस्ट को जीता है।
मर्द जो करते थे राज उन्हें
हमने ही कोख में पाला है।
अहंकार किया जिन्होंने खुद पर,
दूसरे दर्जे का हमको माना है।
उनके तगमों को भी हमने
अब तो छोटा कर डाला है।
हर तगमों पर हर रुतबों पर
आगे बढ़ कर हम बैठे हैं।
इंजीनियरिंग हो या वकालत हो
मेडिकल हो या हो शिक्षा
साइंस हो या एडमिनिस्ट्रेशन
हर क्षेत्र में हम अब आगे हैं।
अब वह नारी नहीं रही,
जो चूल्हों में दम तोड़ती थी।
अब वह नारी नहीं रही,
जो जुल्मों को सहती थी।
अब वह नारी नहीं रही,
जो अपमान का घूंट बस पीती थी।
अब नारी वह दुर्गा है,
जिसने राक्षसों को मारा है।
अब नारी है वह सरस्वती
जो शिक्षा की देवी है।
अब नारी वह लक्ष्मी है,
जो घर बाहर इज्जत देती है।
अब नारी द्रोपदी नहीं रही,
न ही वह अब सीता है,
अब नारी कृष्ण का है सुदर्शन,
वह तो अब भगवत गीता है।
नारी अब अबला नहीं रही,
नारी अब तो सबला है।
नारी अब तो सबला है।

After more than a hundred years of effort, the woman has occupied her place in society where the man was ruling. But, the battle is still on, the goal is still not fulfilled. The men who ruled the women was raised in the wombs of women. Now the woman has matched the man in all the fields whether it is Medical, Engineering, Sciences, Education or Administration. Today's woman is not that woman who was burnt, prosecuted and insulted. The woman is Durga who killed the demons, she is Saraswati, the Goddess of Education and she is Lakshmi, the Goddess of Wealth. She is Sudarsana of Lord Krishna and she herself is Bhagvat Geeta. She is now powerful and competent.

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Psychological Impact of a Pandemic

December 2019 evidenced a sudden surge of a virus named novel corona virus (COVID-19) which will be infamously penned down as a pandemic that brought the entire world down to a distressed standstill. A condition which began with the outbreak of pneumonia in the city of Wuhan, China, resulted over 1,00,000 cases and thousands of deaths globally in a few weeks time with the numbers increasing daily across the globe. The virus which was suspected to be zoonotic in nature by the scientists, surpassed SARS-CoV in less than a month's time when compared to total number of reported cases. With the World Health Organisation (WHO) designating COVID-2019 outbreak a “public health emergency of international concern”, the entire world observed the emergence of a related threat- the psychological distress among the global citizens as a result of the repeated media attention about the outbreak.

COVID-19, being declared as a pandemic and the government and media across the globe calling for social distancing, has created an adverse impact on the mental health of the citizens who were already threatened with the unprecedented fallout of the economy and the society. WHO on March 27, 2020 showed concerns that the measures which has compelled billions of people to live in isolation or quarantines with or without the infection has significant negative impacts on the mental wellbeing of people. Behavioural psychologist, Virgine De Vos, says that the crisis of isolation, closure of schools, work-places, barring people to walk and talk freely could lead symptoms of depression or lack of participation in the coming days, however she believes that the predominant reasons which will compromise the mental well-being of the people is the lack of testing and lack of diagnosis and timely treatment.

The mental well-being of the individuals is compromised at a rapid pace because of experiencing anxiety about one's health, worrying about recovery, and “hypochondriac reactions”

On March 29, 2020, with the global count of COVID-19 cases crossing 7,00,000 and India counting at 1024 reported cases along with 27 deaths as reported by the Health Ministry there is an increasing level of stress, anxiety and panic attacks. India has reported two deaths by suicide supposedly linked to the pandemic. The first death by suicide anywhere in the world has been reported in India where a 50 year old man committed suicide after he was convinced of being contracted by the virus and with fear of invariably contracting it to the family members. The second death happened at Safdarjung hospital where a suspected corona virus infected patient committed suicide because of the fear of this contagion.

The mental well-being of the individuals is compromised at a rapid pace because of experiencing anxiety about one's health, worrying about recovery, and “hypochondriac reactions” which is characterised by fears that minor bodily or mental symptoms may indicate a serious illness, along with “extra precautions behaviour”. The medical journal Lancet, speaking about the psychological impact of quarantine has mentioned about various negative effects namely confusion, post traumatic stress and anger. Few stressors highlighted by Lancet are the fear of infection, longer quarantine period, lack of information, lack of supplies, financial loss and the like.

The WHO guidelines has recommended to minimize the watching, listening and reading about the pandemic which may cause an individual to feel anxious or distressed. However, the suicide committed by German finance minister Thomas Schaefer on 29th March, 2020 apparently after becoming extremely worried about the means to cope with economic fallout, has left a question on the mental health of the global Diaspora who is updated moment to moment about the pandemic and its corresponding shifts in dynamics of human mortality.

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Ph.D Thesis Awarded– December 2019 to April 2020

Name	Subject	Guide	Title of the Thesis
Subhagya .D.S	Electronics Engineering	Dr. C Keshava Murthy	An Approach for Measurement of SpO2 in Presence of Motion Artifact
Lakshmi B	Mathematics	Dr. K Rama Narasimha	Study of Unsteady Mixed Convection Boundary Layer Flow Over a Vertical Stretching Surface
K Prasad Babu	Biotechnology	Dr. M. Manamohan	Development of Multiple Virus Resistant Transgenic Tomato (<i>Solanum lycopersicum</i> L.) by RNAi Mediated Gene Silencing
Ayyappa P A	Management	Dr. Mahesh Kumar K R	A Study on Individual Investors' Behaviour in an Organised Commodity Futures Market in Bengaluru City
Patil Mahadeo Rajshekhar	Chemistry	Dr. Rangappa Keri	Synthesis of a Novel Heterocyclic Compounds and Nitration of AryI, HeteroaryI Compounds
Mohammed Habibulla	Civil Engineering	Guide: Dr. Bhaskar Dixit Co-Guide: Dr. Sampath Kumar M C	Source Apportionment of Particulate Matter in the Ambient Air- A Case Study - Bangalore
Narendra Babu C R	Kannada	Dr. K Gokulnath	Haridaasa Saahitya Mathu Janapada Saahitya-Ondhu Tholulanika Adhyayana
Ramesh Kumar V	Electrical & Electronics Engineering	Dr. Pradipkumar Dixit	Short-Term Load Forecasting of Bangalore City Using Multilayer Artificial Neural Network
Kruthi R	Computer Science	Dr. Shivanand S Gornale	Fingerprint Pattern Analysis for Gender Identification and Classification using Image Processing Techniques

Name	Subject	Guide	Title of the Thesis
Revanna C R	Electronics Engineering	Dr. C Keshava-murthy	Development of Mixed Chaotic Encryption Methods for Document Images
Vishal K	Chemistry	Dr. Siddappa A Patil	Synthesis, Characterization and Catalytic Applications of Palladium Based Nanocatalysts for Organic Transformations
Sara Kunnath	Management	Dr. Chaya Bagrecha	An Analysis of the Impact of Renewable Energy on Organization Performance and Sustainability: A Perceptual Study
Triveni K	Biotechnology	Dr. Rajeswari Shome	Development and Evaluation of Fluorescence Polarization Assay and mAb Based ELISA for Differentiation of Infected from Vaccinated Animals for Brucellosis
G R Sivarama-krishnan	Computer Science	Dr. R Suchithra	Machine Learning based Domain Specific Ontology Generation using Automatic and Authorized Learning Models
Chethana Achar N	Music	Dr. Meera Rajaram	Bhakti Sangeetada Agra Peeta – Udupi Kshetra (14th to 19th Century)
Manasa K	Biotechnology	Dr. Vani R	Studies on the Influence of Antioxidants on Platelets under Oxidative Stress Situations
Sneha Burman	Psychology	Dr. Shailaja Shastri	Drivers of Employee Engagement: Developing a Model for employees of IT Industry in Bangalore
Sebagenzi Jason	Computer Science	Dr. Suchithra R	Virtual Machine Management in Cloud Data Centers for Energy Optimization

Research Alumni Meet– February 2020

The Alumni Meet of the M.Phil and Ph.D Research Scholars was held on 29th February 2020, at the J.P Nagar campus of JAIN (Deemed-to-be University). The programme was attended by over a hundred alumni, and about fifty research guides from various departments of the University. The programme started with an invocation by Ms. Ragini, our M.Phil Gold Medalist for 2019, and current Ph.D scholar. Dr. Mythili P. Rao, Dean- Languages, and Research Coordinator, formally welcomed the gathering. This was followed by Dr. Sandeep Shastri, Pro-Vice Chancellor sharing his thoughts on the Alumni meet, and the various initiatives that the University has taken to involve the Alumni in the research activities of the University.



The audience members had the opportunity to be inspired by the words of our Chairman Dr. Chenraj Roychand, who spoke of how the great expectations of the research guides, and the scholars themselves have and would in future lead to greater achievements. An award ceremony to felicitate the achievements of the research scholars and the guides also took place. Among the guides Dr. R.N Iyengar and Dr. Vani R.S were felicitated since their research scholars were awarded the Best Thesis by JAIN University. Dr. Suchithra was felicitated for having successfully



guided eight doctoral scholars, followed by Dr. Srividya Shivakumar, who has successfully guided five research scholars, and Dr. Meera Rajaram, Dr. Geetha Balakrishnan, Dr. Rajani Jairam, Dr. K.N Varalakshmi and Dr. Usha M.S, who have successfully guided four scholars each for their respective doctoral degrees.



Eight research scholars were also felicitated for their contributions to research and academics. Dr. Megha H.S was felicitated for being awarded the Best Ph.D Thesis for outstanding original research work on Banana, by the International Conference on Banana 2020, organised by the National Research Centre for Banana at ICAR, at Trichy; Dr. Raghavi Bhujang, for being presented with the Best Researcher



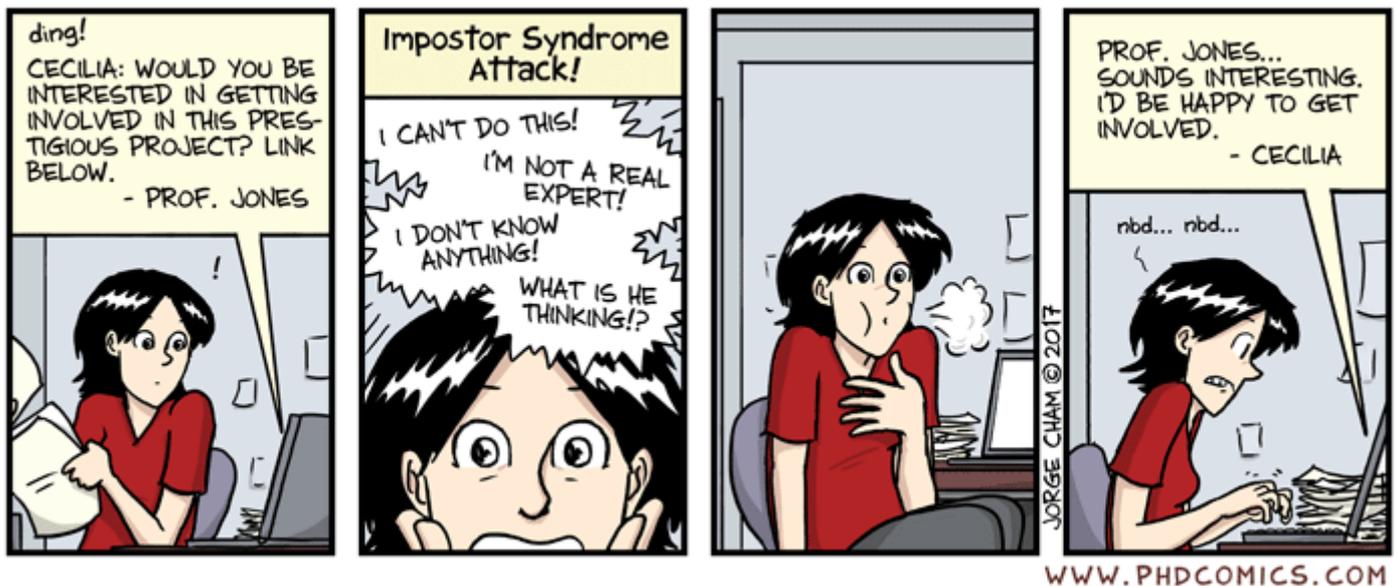
Award by the ESN- India and Sri Lanka International Network; Dr. Jonalee Bajpai, for being designated as Professor, and Dean of National Institute of Fashion Technology, Bengaluru; Dr. Rituparna Tewari was felicitated for being awarded the Best Researcher in Antimicrobial Resistance by the International Journal for Research Under Literal Association in collaboration with World Research Council and United Medical Council; Dr. Pradeep H.R was felicitated for being awarded the ‘Young Engineer of Karnataka 2019’, for his work in the construction industry and research in the field of Concrete Technology, organised by UltraTech Cement and ICI Bengaluru Chapter; Dr Varun Deshpande, for being awarded by the National Cooperative Bank for Innovation in Research, and also for delivering the Keynote Address at the Institute of Electrical and Electronics Engineers (IEEE) International Conference; Dr. Gopalakrishna for being designated as the Deputy Comptroller of Examinations at JAIN University; and Dr. Piyush Kumar Pareek for being the Most Active Alumni of JAIN. Some of the Alumni and Guides then shared their experiences of research work and research culture at JAIN. The evening came to an end with a cultural programme, where our Alumni members sang songs, and also recited a poem. The event was hosted by Dr. Reetika Syal, and the vote of thanks was proposed by Dr. Priyanca Mathur.



Alumni Achievements

Dr. Anupama Ghoshal, Ph.D alumna in Management, who is Associate Professor of Management at the Dayananda Sagar University, Bengaluru, has been given the additional charge as Assistant Registrar-Research Cell at her University in February 2020.

Dr. Vibhavari Kumar, Ph.D alumna in Cultural Studies, was promoted as Professor in January 2019 at National Institute of Fashion Technology (NIFT), Bengaluru. She was also made the Chairperson (Country Head) for the Foundation Programme of 16 centres of NIFT in February 2019. She is currently pursuing her M.A. in Psychology to do her Post-Doctoral Research in the field of User Experience Design/AI. Dr. Kumar presented the following papers: a) “Throwaway Culture as a Status Symbol with Fashion in India” at the PLATE 2017 Conference, Delft, The Netherlands from 8th to 10th November 2017, and b) 'Designing for Aesthetics and Emotion in Urban Space: An Experiential Design Project on Last - Mile Metro Station' for INSIGHT 2018 Design Research Symposium, at NID, Ahmedabad. One of her papers published was in the book titled, *History of Land Transportation, Locomotive Heritage and Road Culture of South Asia*, on the topic: “Socio-cultural Impact of Advent of Metro on Street Scenario of Bengaluru” in December 2017.



“There are two types of people who will tell you that you cannot make a difference in this world: those who are afraid to try and those who are afraid you will succeed.”

- Ray Goforth

Achievements and Publications



Dr Meera Rajaram, Adjunct Professor, Department of Performing Arts, JAIN, was honoured by the Karnataka Ganakala Parishth, one of the prestigious organisations started and managed by the musicians, with the title 'Ganakala Suvarna' in its 50th Annual Musicians Conference and by the Bangalore Gayana Samaja, a 115-year old prestigious organisation, with the title 'Swarabhushini'.

Dr. Suman Pathak, Professor, MATS Institute of Management and Entrepreneurship, published a paper titled 'The Effect of Servant Leadership on the Psychological Well-Being of Employees: A Descriptive Study of MSME Automation Company.' in the Journal of Xi'an University of Architecture & Technology, XI(XII).

Dr. Shweta Gupta, Associate Professor, Dept. of Electronics and Communication Engineering, has been selected as a Senior Member in the *Hong Kong Chemical, Biological and Environmental Engineering Society (HKCBEEES)* and as a session chair in the upcoming *Honk Kong Group of Conferences*. She was taken as Guest Editor-in-Chief in Special Issue of Scopus indexed *International Journal of Organizational and Collective Intelligence (IJOICI)*, IGI Global, USA Inc. Journal "Special issue on Machine Learning and it's Applications - Biomedical and Related Fields." Her research paper for presentation in the 12th International Conference on Bioinformatics and Biomedical Technology (ICBBT 2020), Xi'an, China during May 22-24, 2020 has also been accepted, along with being invited as a session chair.



Ashrini B.S., Ph.D Scholar in Biotechnology, received the "Women Scientist Special Award" at the National Conference held at Banaras Hindu University, Varanasi on 29 February, 2020.

Guruprasad SP, Ph.D Scholar in Electronics Engineering, published 9 papers of international repute and his Patent Application has also been filed on March 07, 2020.

Amartyya Chatterjee, M.Phil Scholar in Mass Communication, gave a TedX Talk where she focused on her research topic: Dance as a medium of Communication. The same can be accessed at <https://www.youtube.com/watch?v=XgBa52-oDUA&t=544s>



Krishna Murari, Ph.D Scholar in Management, published a collection of poems in Hindi "Pahla Khat" which has been published by *Page Turner, USA*, and this collection is approved by the "Library of Congress" which is the biggest library in the world.

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