

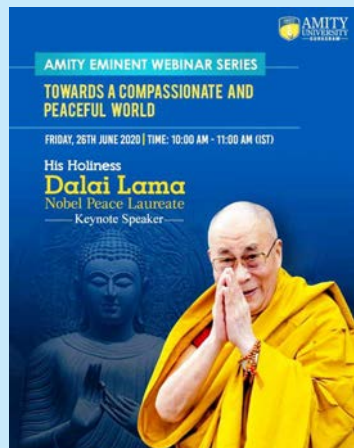


## AMITY EMINENT SPEAKER WEBINAR SERIES

The leading minds of our time share insights and advices on how to make the world a better place as a part of the Amity Eminent Speaker Webinar Series. With the Covid-19 Pandemic throwing the world out of gear, it is vital for everyone to align to the right perspective and vision. With global thought leaders, spiritual giants and visionaries from every field joining this platform, the Amity Eminent Speaker

Webinar Series, is slowly but surely setting the tone for positive change. World renowned personalities who have been a part of this Webinar Series include Nobel Peace Laureate Dalai Lama; Nobel Laureate Kailash Satyarthi; Padma Vibhushan Dr. R A Mashelkar; Nobel Laureate Prof. Mohd. Yunus; Dr. Sangita Reddy, President, FICCI; Ms. Kiran Majumdar Shaw, CMD, Biocon Ltd.; and Padma Shri Shovana Narayan, exponent of Kathak amongst others.

### I AM SON OF MOTHER INDIA - HIS HOLINESS DALAI LAMA AT AMITY EMINENT SPEAKER WEBINAR



At a time when the whole humanity is fighting a war against Corona Pandemic and trying to combat the fear of death, Nobel Laureate of Peace His Holiness Dalai Lama called for 'Creating a Compassionate and Peaceful World' at the Amity Eminent Webinar Lecture organised by Amity University Gurugram. Recalling the

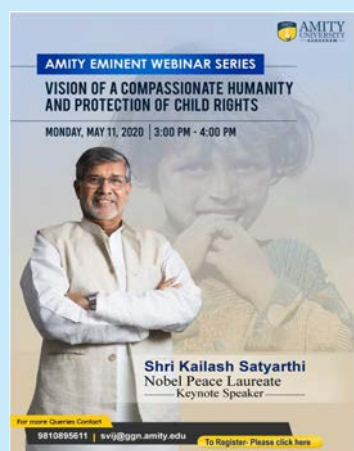
audience of large number of Vice Chancellors, Senior Scientists, faculty members and 5000 student participants connected to the Webinar live and great many more who watched the live webcast on Amity Youtube. The keynote lecture was also webcasted live in 12 languages including Hindi, Tibetan, Chinese, Vietnamese, Russian, Korean, German, French, Italian and Japanese through the official website of His Holiness, ie. [www.dalailama.com](http://www.dalailama.com).

Expressing his concern on the dichotomy of science and spirituality, His Holiness Dalai Lama said, "In the ancient tradition of Tibetan Buddhist thoughts, the Science and Spirituality were cultivated hand in hand and thus the capabilities of science were utilised to create a world full of divine bliss. We find this tradition continuing in the Gurukuls of Nalanda". Today we find that the modern education has delinked itself from the pursuit of spirituality. It is this which is the cause of all problems that has created a divided world. His Holiness called for creating one humanity by spreading the message of love, peace, harmony and compassion through education at all levels. His Holiness further expressed the view that "Considering India is a country that has lived up to its democratic system of governance, being the second largest populous country in the world with freedom of press and right to speech as enshrined in the Indian Constitution, whereas these two rights are completely infringed in China, India shall emerge as number one in the world in respect of preserving harmony between religions and oneness of vast diversity and a leader of the world community to create a compassionate and peaceful world that shall thrive on the cardinal principals of peace, non-violence, tolerance and compassion".

Responding to a question from a young student on 'How to overcome dispersion in the age of uncertainty and pandemic crisis?' Dalai Lama said

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### AMITY UNIVERSITY HARYANA ORGANISED A WEBINAR ON "VISION OF A COMPASSIONATE HUMANITY AND PROTECTION OF CHILD RIGHTS"



Noble Peace Laureate Shri Kailash Satyarthi was the guest speaker at the occasion along with Dr. Ashok K Chauhan, Founder President, Amity Group and Dr. Aseem Chauhan, Chancellor, Amity University Haryana. Shri Kailash Satyarthi in his address talked about the compassionate

technology and its role in reshaping our economy. He stated that during the time of Covid19 we need much more solidarity and unity. Humanity always emerges better after such a catastrophe. We should always ask our self that what can be done to benefit the most marginalised sections of our community. A compassionate humanity requires action with conviction for one and all. Both genders should be taught the importance of respect for everyone and children being the most vulnerable should be protected, Shri Satyarthi added.

Dr. Ashok K Chauhan, Founder President, Amity Group appreciated the concerns which Shri Kailash Satyarthi shared with everybody. He also shared his vision of making India a superpower by 2030. Education is an empowerment for charting a bright mission for the mankind and R&D should be our passion he said.

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"When God pushes somebody, inspires somebody, leads somebody – no power in the world can stop such a person"

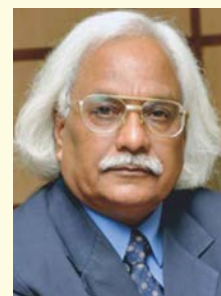
**Dr Ashok K Chauhan,**  
Founder President,  
Amity Education Group



"Amity University is an epitome of higher education that blends modernity with tradition and culture, where science and technology blend harmoniously with performance, progression and innovation"

**Dr Aseem Chauhan**  
Chancellor,  
Amity University Haryana

## MESSAGE FROM VICE CHANCELLOR



Innovation and Creativity have emerged as the major drivers of growth and development of creative economies of nations around the world. The focus of these innovations is to turn creativity into value addition, develop innovated products in a cost-effective manner, create new and innovated applications and in turn create new businesses and new markets. This is the way forward for universities and institutions of higher learning for preparing not just the workforce for

tomorrow but also to create enterprising minds in plenty. Under the visionary leadership of our Founder President Dr. Ashok K Chauhan and inspiring innovative leadership of our Hon'ble Chancellor Dr. Aseem Chauhan, students and faculty at our University are provided ample opportunities to innovate and excel in an educational environment that inspires entrepreneurship and start up development besides making our students industry ready.

Each year 28th September is celebrated as Innovation Day to celebrate the spirit of innovation and to commit ourselves to the cause of plentiful innovations.

University Newsletter 'Chronicle' is an endeavour to reflect the richness of our campus environment that is gravitating with R&D and Innovations to showcase the innovative and creative potential of our students and faculty. I congratulate entire Chronicle team for bringing out 'Innovation Day Special', the 10th Edition of the University Chronicle.

**Prof. (Dr.) P. B. Sharma**  
Vice Chancellor,  
Amity University Haryana

## AMITY GURUGRAM CELEBRATED ONLINE ORIENTATION DAY 2020

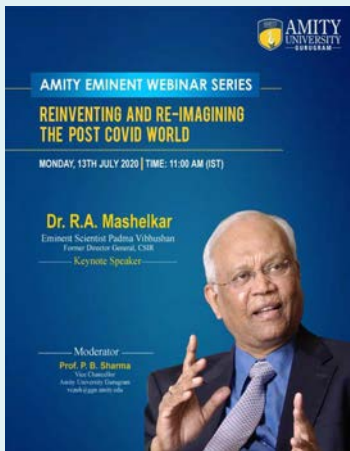
In pursuance with the vision of the Hon'ble Founder President, Amity Education Group and that of the Hon'ble Chancellor of Amity University Haryana and keeping with the rich tradition, heritage, values and Sanskars of Amity, 'One Week Orientation Programme' was commenced with 'Vedic Hawan' invoking the powers of divinity and blessings of God Almighty. It was attended physically and virtually by Prof. (Dr.) P B Sharma, Hon'ble Vice Chancellor; Maj. Gen. B S Suhag, Dy. Vice Chancellor; Prof. (Dr.) Padmakali Banerjee, Pro Vice Chancellor; Deans; Directors; faculty, staff, students and their parents. The inaugural session of the six-day 'Orientation 2020' started with welcoming the young and enthusiastic batch of 2020 and was graced by Dr. Aseem K Chauhan, Hon'ble Chancellor of Amity University Haryana. In view of the ongoing pandemic situation, the orientation programme was held on a virtual platform and was attended by about 1,300 participants including students, parents, faculty, staff and guests from corporate. The session started with the lighting of the Ceremonial Lamp and was followed by a virtual tour of the University. The virtual tour encompassed the University's exciting campus life apart from showcasing the University's state-of-the-art infrastructure and other facilities.

Prof. (Dr.) Padmakali Banerjee, Pro Vice Chancellor and Dean Academics, extended a warm welcome to the new students and their parents on their admission to one of the leading Universities of India. While addressing freshers she talked about 'Three I's of Amity University Haryana (AUH) i.e. 'INNOVATION', 'INDUSTRY INTEGRATION' and 'INTERNATIONALIZATION' which are the core of overall teaching-learning & research at the University. She added that Centres of Excellence at AUH ensure that students remain at the forefront of the latest in innovation and technology. She assured them that they are in the best hands and Amity is committed to nurture them in every aspect. She also highlighted that the present pandemic situation requires developing new skills and competency to fight the crisis and emerge as a winner. She particularly emphasised on the role and power of innovation and research for social and economic development of our country. She encouraged the young aspirants to be a part of the Amity's legacy by taking full advantage of the opportunities that the University offers and congratulated new students for showing utmost courage and resilience in these unprecedented times. She encouraged them to build capacity, optimism and intelligence to contribute to the society and make a difference.

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## AMITY EMINENT SPEAKER WEBINAR SERIES DECENTRALIZATION, DECARBURIZATION AND DISCIPLINE SHOULD BE THE PILLARS OF POST-COVID INDIA- PADMA VIBHUSHAN DR RA MASHELKAR AT AMITY EMINENT WEBINAR



As India embarks upon rapid economic recovery post-COVID, it should not simply go back to the grey hazy sky and grey waters in its rivers and water bodies that marked the kind of poor health of environment in the pre-Covid times. Rather it should focus on Decentralization, Decarburation and Discipline as the three pillars of strength for economic recovery said eminent scientist Dr. RA Mashelkar, past President of Indian National

Science Academy and former Director General of CSIR while delivering the Amity Eminent Webinar organised by Amity University Gurugram. The Post Covid world will be totally different than the world in which we have lived so far he predicted. He continued that the devastating impact of Covid Pandemic has made inequality to rise exponentially, it has badly disrupted livelihood throwing 49 million people suffering from poverty to extreme poverty in just 3 months. As such we need new economic models based on the 3 Rs, 'Restart', 'Rebuild' and 'Recover' fast with blue sky and blue river waters that shall create the post Covid world a prosperous, healthy and happy space.

**Deliberating in great details on the post-Covid world Dr. Mashelkar further opined in keynote address titled "Reinventing and Re-imagining the Post-Covid World" that the need for physical distancing would have to continue for some more time and work-from-home shall become a new normal for hybrid workforce models for most industries and corporates that may be based on three days from home and two days of physical presence in the office. The skilled workforce of tomorrow shall also be able to perform multiple jobs and time sharing would become a new normal. 'Aatmasanyam' (Self-discipline) and 'Aatmabhiswas' (Self-belief) should be an integral part of recovery from the Covid crisis, opined Dr. Mashelkar.** Greatly admiring the call of the Hon'ble Prime Minister of India for Aatma

Nirbhar Bharat Dr. Mashelkar said that "Aatma Nirbharta should not be taken as isolation rather should be inclusive of integration with the global supply chain". He further emphasised on the 5 pillars for developing Aatma Nirbhar Bharat that include 'Buy', 'Make', 'Make to Buy better', 'Buy to Make Better' and lastly to 'Make it Together'. For all this 'continuous innovation' shall remain the key for success. India can do it and do it fast. He cited the example of the 1990s when India was denied Super Computer for its space research but within no time India developed its own super computer PARAM Super, making the advanced nations of the world to say that "Angry India Does It". India's scientists and technologists have great capabilities and during the challenging times they can surpass the imagination of the world in respect of their scientific outcome. Today we are in times of great challenge and thus the call for Aatma Nirbhar Bharat must be taken in the right spirit, said Dr. Mashelkar. India can do it, it is doable and must be done. Placing his great emphasis on the three Ts namely, 'Talent', 'Technology' and 'Trust' Dr. Mashelkar was of the opinion that great opportunities lie ahead for Indian Scientists and Technologists to take leadership position like they did in making IT as synonymous to 'Indian Talent' that surpassed the imagination of the advanced nations of the world. Dr. Mashelkar however cautioned that our efforts to rebuilt post-Covid world should ensure that the marginalised do not become more marginalised, as such, we need to ensure that high technology is made to work for the advantage of the poor, creating both the employment as well as livelihood for over 80% population that lives in the villages of rural areas. Dr. Mashelkar recalled his recent participation in the Higher Education Conclave organised by the Secretary General of UN wherein he has shared his thoughts on how digital transformation could bring about a sea change in improving both the quality and access to education including higher education.

He even informed that among other thoughts that emerged at the UN Global Higher Education Conclave was the view that beyond the 17 SDGs we now need the 18th SDG and that is of 'access to digital infrastructure for one and all'. Responding to a question from the audience about the testing times for those Indian students who were desirous of going abroad for PG and PhDs but are unable to join their universities due to continuing Corona Pandemic, Dr. Mashelkar said that look towards India and its great universities, and there is no dearth of such universities in India. Incidentally Dr. Mashelkar pursued all his

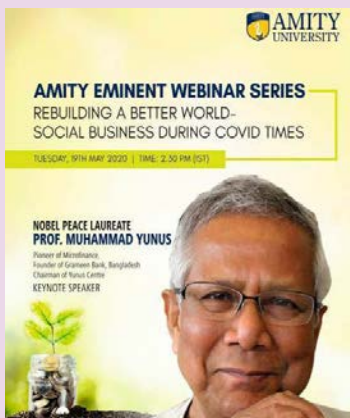


" COVID-19 turns the world to ONLINE and we were fully online within a week. With such heavy investments in Online Teaching Academic Pedagogy since inception, Amity has always been at the forefront of the latest infrastructure, Hi-Tech Labs, and other amenities. With such top-class infrastructure and dedicated faculty, we are firmly moving towards fulfilling the dream and commitment of our Founder President 'to make each of our students a success story' "

**Maj. Gen. B S Suhag (Retd.), Dy. Vice Chancellor, AUH**

education in India including his PhD from the Institute of Chemical Technology of VJTI Mumbai under the illustrious mentorship of globally renowned scientist Dr. MM Sharma. Dr. Mashelkar gave five Mashelkar mantras to the young students. These were 1. Your Aspirations are your Possibilities; 2. Nurture Perseverance in you; 3. There is no substitute of Hard Work; 4. Keep Knocking on Opportunities; and lastly 5. There is no Limit to Human Ingenuity and Imagination. One must be optimistic and say that the best is yet to come. Responding to another question on how could latest technologies like Artificial Intelligence (AI) and Data Science can benefit the poor Dr. Mashelkar said that AI and Data Science will ensure a more robust planning of Atma Nirbhar Bharat and shall also help in further refining our scientific tools of decision making to minimise waste and to improve productivity of rural economy. We are currently sitting on a goldmine of opportunity to create a new wave of rural entrepreneurship powered by the innovative genius of young India, said Dr. Mashelkar. In the words of reverence, the Founder President of Amity Education Group, Dr. Ashok K Chauhan said the Amity Education group is aligned to Dr. Mashelkar's mantra of Innovate and Excel. In Amity, Innovation is the life current of our education and research pursuits. Declaring it as one of the most important lectures in his life, the Founder President expressed his profound happiness in having Dr. Mashelkar for such a thought provoking action packed webinar. Hon'ble Chancellor of Amity University Haryana, Dr. Aseem Chauhan further expressed his profound delight in listening to the globally renowned thought leader Dr. Mashelkar who so deeply connected to Amity University. He stated that in line with Dr. Mashelkar's vision Amity is laying a great emphasis on research outcome, innovation and start-ups. Amity Innovation Incubator is the flagship of our commitment to cause innovations and start-ups in plenty said, Chancellor Dr. Aseem Chauhan. The Moderator of the webinar Prof. PB Sharma, Vice Chancellor AUH, thanked all the participants and expressed his gratitude to Dr. Mashelkar for such an inspiring and motivation lecture.

## COVID-19 - A GREAT OPPORTUNITY TO BUILD A BETTER WORLD - NOBEL PEACE LAUREATE PROF MUHAMMAD YUNUS AT AMITY GURUGRAM WEBINAR



The Corona Pandemic that has had a devastating impact on the global economy and has pushed it towards a great recession should be taken as a great opportunity by the young inspired minds rolling out of the universities to cause a major transformation of the world in which we wish to live post COVID-19. The nations of the world should come together and work together and fight the common enemy that is Corona

Virus, said Nobel Laureate of Peace, Prof. Muhammad Yunus while delivering his webinar address organised by Amity University Gurugram. Addressing the youth of the world, Prof. Yunus reminded that earlier generations never had this unique opportunity that has come to our doorsteps due to the Corona Virus crisis that has resulted in shutting down of factories, closing of businesses and bringing to a grinding halt the wheels of power that were the hallmark of immense mobility in all the nations of the world. This is unparalleled in the history of modern human race, but is a blessing in disguise, he opined. The Corona Pandemic has forced millions and millions of workers to walk back to their native villages as a result of prolonged lockdown. Prof. Yunus advised these creators of wealth to not to return to the world that they have left behind, rather use their power of skills and expertise to create a new world of bliss and

happiness in their villages across rural India. A champion of the cause of social business and entrepreneurship of the masses, Prof. Yunus considered this as a great opportunity to take a great learning from the world the workers have left behind that was based on massive migration of workforce from village to the urban centres of production and businesses. The great damage this kind of development has done to uproot people from their roots and to cause an unpardonable damage to environment is something that must compel the policy makers and planners to rethink better ways of planning for social businesses and creating a new world at places of the origin where these workers are returning to. **The young inspired minds which countries like India and Bangladesh have in plenty should go out into the rural areas and create abundance of jobs and business opportunities there to create new waves of economic development for a new and better world that would be free from massive unemployment and without heavy penalties on the environmental health.** Recalling the great advancement of science and technology and the rapid development that had taken place through urbanisation based economic system, Prof. Yunus minced no words in saying that these economic models have resulted into a great economic divide and have done a great harm to the environmental health. This can be corrected and the opportunity to do so is right here at this moment. Microfinancing, social entrepreneurship and integration of advanced technologies together shall create the business with 'Aatmiyata' (camaraderie) that will ensure inclusive development in which no one is left behind, opined Prof. Yunus. Coming down heavily on the health care and the pharmaceutical sectors Prof. Yunus expressed his grave concern that the vaccine for Corona Virus could fall into the hands of mega business companies that may use their monopoly to mint money from the vaccine as it

would be required by millions of people around the globe. He was also quite concerned that the healthcare has become a great business and the medicines are day by day becoming more and more expensive making healthcare beyond the reach of billions of poor people around the world. "Declare Corona Virus vaccine as Global Common Good" and make it available through social businesses for the people of the world at large and let the medicines not to be treated as business for profit but the business to save lives of people. The Webinar, a part of the Amity Eminent Webinar Series, was attended by thousands of participants from India and around the world. Founder President of Amity Education Group, Dr. Ashok K Chauhan and Chancellor of Amity University Haryana, Dr. Aseem Chauhan were also present in the Webinar that was moderated by Prof. PB Sharma, Vice Chancellor, Amity University Haryana. Dr. Sanjan Vij coordinated the webinar for which excellent IT support was provided by Dr. JS Sodhi and his team. Amity University Haryana and Amity University Rajasthan both have established Nobel Laureate Prof Yunus Social Business Centres in their campuses. These Centres in collaboration with Prof. Yunus have mounted a number of initiatives that include sensitising Amity students about social entrepreneurship, adaptation of villages for promotion of social business and to work relentlessly for the wellbeing of those at the bottom of pyramid and make them entrepreneurs of the new age stated Dr. Aseem Chauhan in his opening remarks. Founder President Dr. Ashok K Chauhan expressed his gratitude to Nobel Laureate Prof. Yunus for connecting with Amity University with 'Aatmiyata' and announced that at every convocation of Amity University Haryana and Rajasthan shall award and recognise the best student for his contributions to the promotion of social business and rural entrepreneurship.

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### I AM SON OF MOTHER INDIA- HIS HOLINESS DALAI LAMA AT AMITY EMINENT WEBINAR

that "Fear is our greatest enemy. We should concur fear by reducing anger and avoiding negative emotions. As negative emotions based on personal experiences create negativity and drive us towards fear". His Holiness further added that our ancient traditions also inspire us to reduce our attachment to the material world as more than often fear originates because of our attachments.

Expressing his immense delight and great reverence to His Holiness Dalai Lama, Founder President of Amity Education Group Dr. Ashok K Chauhan said that in "Amity University campuses, both in India and abroad, ancient Indian values of 'Aatmiyata', Compassion, Tolerance and Harmony are nurtured to inculcate the spirit of humanism in our student community alongside empowering them with great capabilities of modern science and technology". The Chairperson Dr. Amita Chauhan also expressed her

gratitude towards His Holiness.

The Webinar was also graced by Dr. Atul Chauhan, Hon'ble Chancellor of Amity University Noida; Dr. Aseem Chauhan, Hon'ble Chancellor of Amity University Haryana; Dr. W Selvamurthy, President ASTIF; Dr. Gurinder Singh, Group Vice Chancellor of Amity; Dr. AK Nagpal, President of Amity Board of Medical Sciences; Prof. Premvrat, Former Director of IIT Roorkee and IIT Delhi; Col. NK Ahuja, Vice Chancellor of Subharti University; and Lt. Gen. VK Sharma, Vice Chancellor of Amity University Gwalior among others.

The Webinar was moderated by eminent academician Prof. PB Sharma, Vice Chancellor of Amity University Gurugram who is also the past President of the Association of Indian Universities and was coordinated by Dr. Sanjana Vij. Dr. JS Sodhi, Vice President of Amity IT Division and his team provided excellent technical support for the smooth conduct of the webinar.

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### AMITY UNIVERSITY HARYANA ORGANIZED A WEBINAR ON "VISION OF A COMPASSIONATE HUMANITY AND PROTECTION OF CHILD RIGHTS" ON 12TH MAY 2020

Dr. Aseem Chauhan said, in this difficult time we are always ready to serve the society, we as an organisation always believe in serving humanity. We are an organisation of empathy, compassion and helping other people. Amityans are also working in the social sector and medical sector. Prof. P B Sharma while interacting at the session said, "During this time we should rediscover the purpose of life." We are the descendents of our great civilisation which has taught us that whole world is one family. The human life is a great opportunity to develop great capabilities, nurture a character grounded to universal values of truth, nonviolence, compassion and righteousness and a conscience that invokes conviction to serve God through serving suffering humanity, added Prof. Sharma.

## INNOVATIVE ACADEMIC LANDSCAPE AT AMITY UNIVERSITY HARYANA: ENABLING FLEXIBILITY, ADAPTABILITY AND CREATIVITY DURING COVID 19 PANDEMIC TIMES



**PROF. (DR.) PADMAKALI BANERJEE**  
Pro Vice-Chancellor & Dean-Academics

Higher educational institutions in India have shown tremendous growth and have emerged as global leaders in education. The intent has been to provide quality education to the community through multiple means. The journey towards academic excellence involves immense contribution from talented students, quality educators, curriculum design, pedagogy, value based teaching and learning, assessment, continuous research and innovation, national and international accreditations and rankings, updated tools of information technology and infrastructure. Focus on education is on the top priority for an economy and for this it is very important to set a well laid out strategic plan backed up by visionary leadership. The vision reflects a clear understanding on the intent of achievements and outcomes. At the same time, free flow of communication amongst all the stakeholders is very critical for success and sustainability. This leads to the quality framework and thus

achieving the goals as prescribed in sustainability development goals on "Quality Education in marginalised and vulnerable setting". In the present era digitalisation has deeply penetrated worldwide with India adding flavour to the information technology revolution through its trillion-dollar digital economy. Undoubtedly, technology is the key to harness innovation and creativity while achieving the learning outcomes. Amity was a pioneer in acknowledging this key role that technology would play in the teaching learning process in the years to come. That's why, way back in 2013, Amity revamped its processes to integrate technology into the system at every level. The simulated online platform allowed instructors to create a space to add value to the teaching and learning environment. This eclectic approach resulted in viewing the entire academic framework through a different lens shifting the focus from a traditional approach to hybrid format. Since the University was already well equipped in terms of technology all we did was to connect to the community who were remotely located on real time basis. Indeed the COVID 19 Pandemic 2020 further strengthened the belief that blended learning is indeed an effective approach that increases the learning outside the traditional method of teaching and

learning. The effective integration of technology and innovation with the curriculum increased not only the student engagement and the collaborative learning environment but also fostered critical thinking and problem solving amongst the student community. The academic leadership of the University devised the contact hour's mechanism in respect to the engagement of the learners per week versus the total number of credit hours required to complete a course. For an 8 week period from the time of pandemic for a typical three credit course, the engagement of learners was 24 contact hours. Over and above this the students were engaged for another four weeks through tutorials, follow up exercises, discussion sessions and webinars / panel discussions from industry experts. These were conducted for two contact hours per week. This resulted in a total of 32 contact hours of learning. Despite the system being fully online mode yet the student contact hours were delivered effectively and efficiently in achieving the learning outcomes. Though online learning has been an integral part of the University for quite some time now the COVID 19 Pandemic has further accelerated to make this as an effective tool in the broader landscape of teaching and learning pedagogy.

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## AMITY GURUGRAM CELEBRATED ONLINE ORIENTATION DAY 2020

**Major Gen. (Retd.) B S Suhag, Deputy Vice Chancellor, AUH** welcomed the students and emphasised on the uncertain situation created by Covid-19. He also shared that at Amity the faculty and the administration have put in the best of efforts and have made the academic environment comfortable and continuous by the effective utilisation of tools of online teaching. He assured the students that together with their mentors they shall strive to achieve all round fruitful academic development. Addressing the freshers, **Hon'ble Vice Chancellor Prof. (Dr.) PB Sharma** in his opening address on "Professionals of the Digital Age - Innovate, Excel and make Mother India Proud" invited the budding professionals to empower themselves with the capabilities of the new age as also to nurture themselves as responsible citizens of the global society. Prof. Sharma shared the glimpses of major research and innovation happenings in the University and encouraged the students to take the best advantage of the research-intensive academic environment that the University offers. The Vice Chancellor also motivated the students by mentioning that this was the redefining time in their lives as they embark towards a new phase in their lives with complete commitment and patience. He further advised the students to develop their capability to learn and practice advanced tools of decision making to become responsible citizens. He advised students to pay a much greater attention to the health of the environment and tackle the formidable issues such as climate change, water, energy, security and create a sense of pride in being Indians, yet never forget that we in India stand for the welfare of entire humanity, harmony, peace and happiness all around. Hon'ble Chancellor, Amity University Haryana, Dr. Aseem K Chauhan congratulated the new

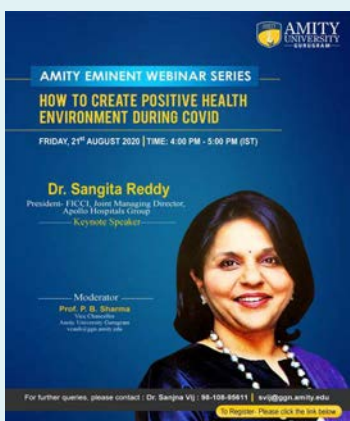
students for being a unique batch. "Since you are entering higher education when the world is reeling under the crisis of the pandemic, you have the opportunity to build and create the world of your dreams", he added. The Hon'ble Chancellor assured the new students that the accomplished and committed faculty members of the University shall mentor them at every step and usher them to the path of achievement of their dreams. He also emphasised that at Amity we strive to instill values and 'Sanskaar' in our students apart from equipping them with adequate skills and knowledge for a promising future. All Deans, Directors, Heads of Institutions and Senior Officials of Amity University also welcomed the freshers to the Amity family and bestowed their blessings and best wishes for their new journey. The inaugural session of the six-day Orientation 2020 concluded with a panel discussion on 'Future of Work and Career'. The eminent panelists of the discussion included Mr. Mohit Soni, CEO, Media and Entertainment Sector Skill Council; Mr. Avik Dutta, Country Director, DigitalEd India; and Mr. Brij Sarda, Founder and Head, Medigrace Health Care Advertising and Training. The panel discussion encompassed the numerous career options and job opportunities for the budding professionals in the technology-intensive times. The guests assured that there are numerous career options and job opportunities in varied fields for the young professionals provided they make well aware choices and are ready to match pace with the ever-evolving technology. Mr. Soni emphasised that this was the beginning of a new era - an era of digital living specially in the COVID scenario. The pandemic has opened new avenues in the media industry which have grown manifolds, in a very short span. He also emphasised that alongside other career options, gaming has evolved as

one of the most promising sectors as now we have the opportunity to develop games showcasing our Indian culture, heritage and technology. Mr. Avik Dutta highlighted the need to create an approach of blended pedagogy i.e. an integrated online and offline education process. He further assured the students that the opportunities have increased by leaps and bounds in the media sector and the sky is the limit. Mr. Brij Sarda made the students aware that today's world is not only for the development of new technology but also for revamping the old ones and presenting it in a more appealing manner. He encouraged the students to learn skills beyond the classroom as he emphasised that "Success is not what you earn but the things you learn". The Vote of Thanks for the inaugural session was proposed by Prof. (Dr.) Vikas Madhukar, Director Admissions, and Deputy Director, ABS, AUH. In the afternoon session, the Amity Institute of Behavioural and Allied Sciences conducted the Psychometric Profiling session for all the new students. **Prof. (Dr.) Padmakali Banerjee, Pro Vice Chancellor and Dean Academics**, emphasised on how this session and the tests it entailed would help the students to get to know themselves better and build up on their strengths in the course of their academic journey at AUH. All the students took great interest in answering the entailing questions and many interacted with the experts in the chat box. This was followed by a very engaging session, introducing the various clubs and societies of Amity University Haryana like Yuva, Ek Awaaz, Udaan, Hunkaar, Jhankaar etc. General Bal, Dean Students Welfare opened the session which was followed by the representatives, members of these societies introducing them to the students to encourage them to join and hone their talent. Thereafter, a Talent Hunt Competition to enable selection of students for the same was announced. Dr. Ranjana Kothari gave the concluding remarks and this marked the end of the first day of the Orientation Programme 2020.

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## AMITY EMINENT SPEAKER WEBINAR SERIES

### NURTURE POSITIVITY AND USE YOUR MIND WISELY TO CREATE A HEALTHY ENVIRONMENT DURING COVID-19 – DR. SANGEETA REDDY



The Coronavirus Pandemic that has created a devastating impact on the economies of the nations around the world and continues to cause enormous anxieties and mental stresses need to be confronted with a mind tuned to positivity and hope during these testing times of great uncertainty said Dr. Sangita Reddy, President FICCI and Joint Managing Director Apollo Group of Hospitals while delivering Amity Eminent

used wisely. The most important thing you the young students are doing today is learning how to use this power of your mind wisely by filling it with the right knowledge and choosing the right path and right skills and capabilities". Let you overcome your fear and work together to create a better world than the one left behind before the COVID Pandemic, said Dr. Reddy. Today humanity is grappling like never seen before. The generational medical crisis which has now become an economic as well as a social crisis. There are geopolitical shifts and global friction. There is a manifestation of a burdening crisis all over the world. But then, as it is said that, the brightness of stars is in the darkness of night, and as such it is also the time of great hope and to have great resilience to combat the impending threats of expansionist COVID, said Dr. Reddy a crusader of affordable health care for all. Sharing her experience of implementing a number of innovative initiatives in Apollo Group of Hospitals, Dr. Reddy said that the continuous quest to push the benchmarks of excellence and caring service to humanity have made Apollo a class apart amongst the hospitals in Asia. The integration of the latest advances of IT in health care services and the synergy between the advances in biomedical engineering and health care services have made India's health care truly world-class. Lauding the efforts of Government of India in combating the COVID crisis, Dr. Reddy said that the timely interventions of the Government have resulted into containing death rate below 3 per cent and the recovery rate of over 72 per cent. But we still need to win the battle as over 69,000 cases were being added daily. Invoking a sense of courage and commitment to fight the ongoing pandemic, Dr Sangita Reddy cited the courage and conviction with which the nursing professionals work in the isolation wards, giving their very best services often sacrificing their comfort and even risking their lives.

The youth of our country should emulate this exemplary courage and prepare themselves to serve the vast humanity with a caring concern for the last man in the society so that no one is left behind. Recalling the famous quote of Mahatma Gandhi that the best way to find yourself is to lose yourself in the service of others. This is the time to show our utmost care and concern for the suffering of humanity and also to care for yourself at the same time. Replying to a question from the audience as to how to remain positive minded and maintain a healthy environment when we are so pressed with online classes and other pressing engagements, Dr. Reddy said that despite being busy you have to find time for yourself to refresh your mind and to connect to your soul. Answering another question on the power of prayers in the hours of crisis, Dr. Reddy said that the prayers have great healing power and they do wonders as they give solace to your mind as well. There were many other questions including the long-term effects of Covid-19 and overcoming the fear psychosis due to uncertainties. In her message to the youth, Dr. Reddy said that It is the defining moment for each one of the students to decide how they want to live and lead their lives. She advised to have courage and faith in human capabilities to overcome the crisis and work with a positive mindset. Founder President of Amity Education Group Dr. Ashok K Chauhan; Chairperson Dr. Amita Chauhan; Chancellor of Amity University Uttar Pradesh Dr. Atul Chauhan; Chancellor Amity University Haryana Dr. Aseem Chauhan; Group Medical Director Apollo Hospital and President Global Association of Physicians of Indian origin Dr. Anupam Sibal; and Senior Consultant Internal Medicine at Apollo Hospital New Delhi Dr. MS Chaudhary were also present in the Webinar that was moderated by Prof. PB Sharma, Vice-Chancellor, Amity University Haryana.

Webinar Address organised by Amity University Gurugram. The webinar was attended by over 2000 students, Vice-Chancellors, Senior Semitists, Deans, Hols and members of faculty from 10 Amity Universities in India and many more from abroad. The economic and social crisis caused by Covid-19 is undoubtedly the basis for the fear and enormous anxiety that covers everyone irrespective of their economic prosperity or social status. It requires leadership that undertakes positivity and willingness to find solutions that can mitigate the ill-effects of the COVID Pandemic. At the same time, it is absolutely necessary to create a positive health environment around. Addressing to over 1000 inspired youth connected to the webinar, Dr. Sangita Reddy said "Your mind is the most powerful force to empower you. It can take you to the heights of ecstasy or can enslave you and plunge you into the depths of misery if not

## RESEARCH AND INNOVATION: OUR PASSION 04

### RESEARCH AND INNOVATION: OUR PASSION

Amity University Gurugram has always been at the forefront of Research and Innovation. Lockdown or no lockdown, research at Amity Gurugram is always on top gear. Scientists, researchers, and esteemed faculty here are passionately engaged in diverse research activities.

S.No.	Particulars	No.	Amount (Rs)
1	Projects Granted	63	24.14 Cr
2	Consultancy Projects Granted	36	40 Cr
3	Collaborative Projects with Other Universities / Institutions Granted	8	6.31 Cr
4	Projects Submitted	369	238.51 Cr
5	Scopus Publication	852	-
6	Patents Filed	154	-
7	Total Publications Journals / Conference / Books / Articles	4128	-

**INVENTION :** A method of synthesis of Yttrium Iron Garnet (YIG) nano-materials as source of clean and green energy  
**PATENT APPLICATION NO.** 202011001179 filed in India on 10/01/2020



**INVENTORS :** Prof. Preeti Thakur, AUH; Prof. Atul Thakur, AUH; Prof. Pritam Babu Sharma, AUH

**ABSTRACT OF INVENTION:** The present invention relates to the method of synthesis of Yttrium Iron Garnet (YIG) nano-materials as source of clean and green energy. Green energy is the need of the hour to save our planet. Nanomaterials are used for the fabrication of the Hydroelectric Cell which, in turn, generates green energy. Hydroelectric Cell (HEC) developed can generate power using only a few drops of water. It produces electricity at room temperature. The YIG nano-materials ionise the water molecules at room temperature and then the ions are collected at two different electrodes which in turn generate electricity.

**INVENTION :** Low-cost nano-patterning of Graphene to safeguard from viruses and bacteria  
**PATENT APPLICATION NO.** 202011021718 filed in India on 23/05/2020



**INVENTORS :** Brijesh Kumar, AUH

**ABSTRACT OF INVENTION:** Graphene is being actively explored for biomedical applications, ranging from drug delivery, bio-sensing and imaging to antibacterial materials. Currently, to safeguard human health with the ongoing Corona Virus crisis, researchers and companies are exploring potential applications of Graphene to fight against Corona Virus pandemic and one of those is making respiratory masks of Graphene. To produce the mask of Graphene nano-patterning of it is required. Attempts to produce nano-patterns in the Graphene have been made using different methods. These methods are of multiple steps, highly challenging, difficult, and expensive for the large scale production of Graphene nano-patterns required for use in respiratory mask. The present invention consists of an easy and cost effective process for nano-patterning of large areas of Graphene for use in respiratory masks including those for N95 and N99 masks.

**INVENTION :** A low cost method of mass cloning of plant (Tylophora indica (Burm. f) Merrill) using liquid medium  
**PATENT APPLICATION NO.** 202011004806 filed in India on 04/02/2020

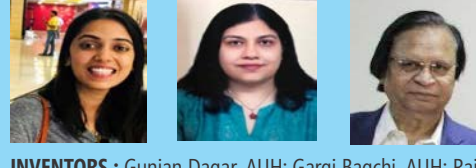


**INVENTORS :** Manju Anand, AUH

**ABSTRACT OF INVENTION:** The present invention relates to an in vitro method of mass cloning of a valuable medicinal plant Tylophora Indica (Burm. f) Merrill using liquid medium. The method provides an efficient, cost effective and reproducible protocol for the large scale propagation of Tylophora Indica. The liquid micropropagation method reduces the cost of the process as well as ensures efficient direct uptake of nutrients which leads to better growth. Thus the present invention provides a low cost liquid medium devoid of Agar which has been used for the in-vitro propagation of Tylophora Indica. Besides being cost effective, it was more efficient system as the number of shoots produced was more as compared to the solid medium.

contd. on page 5

**INVENTION :** A system and method of detection of androgens and anti-androgens in water with SEAP assay  
**PATENT APPLICATION NO.** 202011007726 filed in India on 24/02/2020



**INVENTORS :** Gunjan Dagar, AUH; Gargi Bagchi, AUH; Rajendra Prasad, AUH

**ABSTRACT OF INVENTION:** The present invention is related to a reporter assay for the detection of androgens and anti-androgens in water. Chemicals such as pesticides, household waste, industrial waste, and plastics often find their way in to the water and interfere with the hormonal balance of the body. For detection of these chemicals a reporter assay system has been generated. This includes a stable cell line created by integrating plasmids that contain the androgen receptor, androgen response element (3XHRE) and co-activators (GRIP1, CARM1, p300 and mZaclb) with the SEAP (pSelect-Zeo-SEAP) (InvivoGen) reporter gene. The optimal combination of AR and ARE along with 4 different co-activators were used to enhance transcription activity of the assay. In its current form, this assay allows the rapid, visual detection of androgens and anti-androgens in water at very low pM concentrations in a high-throughput format.

**INVENTION :** An antimicrobial face mask using nanoparticle coating  
**PATENT APPLICATION NO.** 202011017740 filed in India on 25/04/2020



**INVENTORS :** Arvind Chhabra, AUH; Monika Vats, AUH; Neha Kuhar, AUH; Shatendra K. Sharma, AUH

**ABSTRACT OF INVENTION:** The present invention is a three-layered reusable, biodegradable, anti-microbial face mask. The middle layer of which is coated with nanoparticles exhibiting anti-microbial properties. The two layered scaffolds house the middle layer, which could be reused with washing or be replaced with new filtration assembly. The face-masks that are in use today are either surgical masks that do not protect against infectious agents or are not reusable, and leave carbon foot print on the environment. Further, the masks thrown in trash by asymptomatic patients could further contribute in spread of the virus. This face mask is reusable, biodegradable, and has anti-microbial properties. It could also be upgraded to N95 grade and can be used to filter out particulate materials to protect against air pollutants.

**INVENTION :** A multi-purpose solar artifact integrated with phase change material  
**PATENT APPLICATION NO.** 202011018834 filed in India on 02/05/2020



**INVENTORS :** Anant Patil, AUH; S.N. Sridhara, AUH; Rajesh Arora, AUH; Ranjana Arora, AUH

**ABSTRACT OF INVENTION:** The present invention relates to a system and method for multi-purpose solar artifact integrated with phase change material in which photo-voltaic panels are arranged in an umbrella pattern to capture maximum solar radiations and generate electrical and heat energy. The system and method for solar artifact integrated with phase change material also consists of a sun tracking device and a two-way cleaning system. In order to protect the structure from rusting and environmental deterioration, composite FRP material is utilised in fabricating the structure. This significantly enhances their efficiency and can utilise the stored energy of phase change material in water heating, space conditioning or other preheating applications. So, the dual form of energy can be generated from this design i.e. electrical and heat energy which can be utilised in a number of commercial and residential applications

### PEARLS OF INNOVATION 150+ PATENTS FILED

**INVENTION :** A method for preparing advanced Graphene and natural silk reinforced epoxy composite materials  
**PATENT APPLICATION NO.** 202011035994 filed in India on 20/08/2020



**INVENTORS :** Sanjeev Sharma, AUHK; N. Sanjeev, AUH; Pritam Babu Sharma, AUH; Abdel Hamid Ismail Mourad, AUH

**ABSTRACT OF INVENTION:** The invention deals with the development of the novel advanced composite material involving epoxy resin as matrix and reinforcing with Graphene and natural silk suitable for structural applications in wind turbine blades, aircraft wings and bullet-proof vests. Graphene and natural silk fibre have been used individually in polymer composites but these have never been used in combination for development and application of epoxy based composite at low cost. Hence, hybridization of Graphene and natural silk fibres to reinforce epoxy-matrix composites is being conceptualised and developed which can result in high performance advanced composite material for structural application with high impact strength and toughness but light in weight. Our invention provides a composite material that will have lower weight but at the same time higher strength and stiffness.

**INVENTION :** A method for the development of Maltodextrin and Gum Arabic Micro encapsulated freeze dried latex from Ficus Racemosa and Its Hepatorotective Effect  
**PATENT APPLICATION NO.** 201911024115 filed in India on 13/05/2020



**INVENTORS :** Pritam Babu Sharma, AUH; Saurabh Bhatia, AUH; Seema R Pathak, AUH; Viveak Ballyan, AUH; Sandeep Singh, AUH

**ABSTRACT OF INVENTION:** The present invention relates to a method for pretreated maltodextrins and Arabic gum encapsulated latex from Ficus Racemosa and hepatrotective effect of freeze dried MD and GA encapsulated latex from Ficus Racemosa. The present scheme provides the hepatrotective potential of freeze dried gummy exudate from Ficus Racemosa. This novel method is followed by the encapsulation with maltodextrins and Arabic gum to increase the shelf life and improve its quality. Plant exudates are vulnerable against various environmental factors which can encourage the oxidation of chemical components. The present invention provides novel approach to prevent oxidation of chemical constituents by micro-encapsulation using lyophilization process and its further treatment. Optimised conditions which are used during micro-encapsulation remove the solvent at a very low temperature.

**INVENTION :** A sugar-free chewing gum to cure dental caries, pain & mouth ulcer  
**PATENT APPLICATION NO.** 202011022670 filed in India on 29/05/2020



**INVENTORS :** Saurabh Bhatia, AUH; Pritam Babu Sharma, AUH; Viveak Ballyan, AUH; Ahmed Al-Harrasi, AUH; Sridevi Chigurupati, AUH

**ABSTRACT OF INVENTION:** Dental caries and mouth ulcers are major public health problems which cause continuous discomfort and pain in oral cavity. These two conditions restrict mouth activity by causing acute pain, inflammation and discomfort. Objective of the current invention is to treat dental caries and mouth ulcer by sugar-free chewing gum containing combination of plant extracts and essential oils. In this invention polyherbal syrup of different herbal extracts is prepared and mixed with water soluble gum base. To impart flavour, combination of essential oils is prepared and mixed with water insoluble phase comprised of beeswax, polybutene, gum rosin and Span 80. Antulcer and antimicrobial activity of developed gum is evaluated. This portable sugar-free chewing gum can also be utilised to treat and prevent various oral ailments and to maintain oral hygiene. This gum can also be used by diabetic patients suffering from severe periodontal diseases.

## PEARLS OF INNOVATION 150+ PATENTS

**INVENTION:** A method for preparing nano-composite antimicrobial polymers for manufacturing respirator mask  
**PATENT APPLICATION NO.** 202011031429 filed in India on 22/07/2020



**INVENTORS:** Prof. Preeti Thakur, AUH; Prof. Atul Thakur, AUH; Prof. Pritam Babu Sharma, AUH

**ABSTRACT OF INVENTION:** This invention relates generally to nano-composite materials which are used to make respirator masks. It relates to an improvement in composition of respirator masks which are prepared by using antimicrobial polymers for injection molding or three-dimensional printing. These are used to make three-dimensional printer cartridge with the antimicrobial properties to produce the respirator masks. The material is hydrophobic in nature, recyclable, reusable and non-toxic.

**INVENTION:** A grey water remediation system with existing original equipment manufacturer OEM  
**PATENT APPLICATION NO.** 202011030991 filed in India on 20/07/2020



**INVENTORS:** Seema R Pathak, AUH; Manisha Devi, AUH; Chinmay Paridha, AUH; Varun Rawat, AUH; Chandra Srivastava, AUH; Pooja Rawat, AUH; Monika Vats, AUH; Manoj Dhariwal, AUH

**ABSTRACT OF INVENTION:** The main barrier for wider and faster dissemination of suitable grey water management systems on household level is the lack of knowledge and experience in that field, especially in developing countries. Improper disposal of grey water produced by washing of clothes either by hands or washing machines are major concerns for creating sludges leading to most of the infectious diseases. Scientific knowledge is sparse regarding grey water characteristics and adequate grey water treatment systems allowing a proper and safe disposal or reuse of grey water. The kit developed can be attached either in outlets of washrooms or as an unit in washing machines to provide a very facile process for remediation of grey water and subsequent production of potable water.

**INVENTION:** A head gesture-controlled wheelchair system  
**PATENT APPLICATION NO.** 202011033725 filed in India on 06/08/2020



**INVENTORS:** Kiran Somiseti, AUH; Rohit Phogat, AUH; Khushboo Tripathi, AUH

**ABSTRACT OF INVENTION:** The present invention relates to a head gesture-controlled wheelchair system. It pertains a sensing system for controlling the movement of a wheelchair, which includes a micro-controller to actuate the movement of the same; an electric motor adapted to move the wheelchair on receiving signal from the micro-controller; a head wearing unit having an accelerometer sensor; a solar panel for providing solar power supply to all the electronic components. Further, the accelerometer sensor is configured to provide input to the micro-controller.

## PARTIAL LIST OF R & D PROJECTS RECENTLY APPROVED

Institute Name	Researcher Name	Research Topic	Agency	Amount
AIB	Dr. Amit Pandey	Investigating of the role of LncRNA PANDAR in the progression and metastasis of Ovarian Cancer	ICMR EMR	3,000,000
AIB	Dr. Alok Srivastava	System level meta-analysis of Type 2 Diabetes to identify key regulator	ICMR EMR	7,000,000
AIB	Dr. Ujjaini Dasgupta	DHR-Identification of Sphingolipid-based Biomarkers for Triple Negative Breast Cancer (TNBC) and Luminal A Patients and their 72 Clinico-pathological Correlation Proposal id (GIA/2019/000170/PRCGIA)	ICMR EMR	4,700,000
AIB	Jaydeep Bhattacharya Ravi Tandon, Dr. Ranjita Ghosh Moulick, Sameer Gulati, Subrata Sarkar and Souvik Pal	A low-cost portable micro-fluidics embedded on chip rRT-PCR and micro-electrode array coupled point-of-care opto-electronic device for large scale screening of emerging viral disease like SARS COV2	BIRAC, DBT, Govt. of India, New Delhi	9,000,000
AIB	Dr. Rajendra Prasad	PG Teaching in Biotechnology (M.Sc. in Biotechnology) approved by DBT for GAT-B national based admissions	DBT for GAT-B national based admissions	Approved
AIB	Dr. Ranjita Ghosh Moulick and Kaustav Bandyopadhyay	Fabrication of Realtime in planta biosensors for pre symptomatic detection of heavy metal toxicity	DBT, Govt of India, New Delhi	6,000,000
AIB	J. Bhattacharya, R. Ghosh Moulick and R. Chhabra	To study the dynamics of sickling inside blood capillary mimicking micro-fluidic system to fabricate a portable point-of-care electronic device for the detection of sickle cell disease	ICMRASET	1,000,000
ASET	Dr. Vimal Kishor Singh	Human lacrimal gland regeneration: a study of the existing technological advancements and development of next generation solutions by tissue engineering and regenerative medicine	SERB	4,367,888
ASAS	Dr. Ankush Vij	Industry Research Project entitled: Development of rare earth ions doped borate nanophosphors for solid state lighting and radiation dosimetry devices, sponsored by RI Nanotech India, JRF recruitment pending due to lockdown	RI Nanotech India	250,000
ASCI	Manoj K Kashyap, Dr. Suresh Kr. Kalangi, and Tessy Maliekal	Differential Inhibition of Visfatin-PAK4 as a Novel Strategy in Oesophageal Squamous Cell Carcinoma for Therapeutic Purpose	ICMR	4,500,000
ASCI	Dr. Suresh Kr. Kalangi	Novel drug molecule discovery from Cannabis Sativa and their therapeutic use as nanomedicine in pain management and non-healing ulcers had been approved	Stem Max Pvt. Ltd. India	4,000,000
AIP	Dr. Arun Kumar, Dr. Satish Sardana	Identification of biomarker candidate for early diagnosis of myocardial reperfusion injury and reoccurrence centralizing GSK3 using metanalysis	ICMR EMR	4,900,000
ACNT	Dr. Atul Thakur	Water analysis and treatment of Bilaspur pond by nanotechnology	Gurujal, Haryana	4,420,000
ACNT	Dr. Atul Thakur	An antimicrobial face-mask using nano-particle coating	TIDE 2.0 MleTY G3C	700,000
ACNT	Dr. Ankur Kaushal	Electrochemical DNA sensor for the diagnosis of scrub typhus	SYST, DST	3,442,560

UG Courses in:  
**Applied Science**

B. Sc.(H) Forensic Science /  
Earth Science / Physics /  
Chemistry / Mathematics

**B.Tech courses in:**

- Data Science
- Artificial Intelligence
- Machine Learning
- Internet of Things & other streams



### WEBINAR ON ROAD-MAP AFTER LOCKDOWN - HR PERSPECTIVE

Eminent HR professionals from leading industries were invited to provide their clear perspective on the revival of business and possible new norms to tackle the challenges in near future. The main focus of the Webinar held on 5th June, 2020 was to address major interests / concerns pertaining to the final year students as also for the young Faculty / Staff members of our University.



Dr. Ashok Kr. Balyan stated his views on sustaining the business in the current 'New Normal'. He had expressed how the present situation has created a great amount of uncertainty as many companies / organisations are struggling to adjust in this new way of working. He had affirmed that the focus has now shifted from the livelihood to how do you create continuity in business and how to sustain it.

Ms. Nitu Pahuja had elucidated the role of leaders in this pandemic towards their employees and business. She had expressed that now the leadership role is very important and is re-inventing itself with compassion & empathy and communication with the employees to address their concerns is paramount. She had also mentioned how the leaders have taken up responsibility to assure that the business must thrive while staying calm and thinking of new solutions and managing their employees' experience in these tough time.

Mr. Nishant Kolgaonkar had highlighted the value of employees and customers in an organisation. He had enlightened the viewers on employees' safety and health in these difficult times due to the pandemic situation. He

stated that it was very important to deal with employees' anxiety and mental health as also to stay connected with them. Admiral Pandey summed up that such forced eventualities do ring up new challenges but also throws open new opportunities that require out-of-box solutions for young entrepreneurs and budding professionals. The future shall have a mix of online as well as offline jobs / tasks, for which the young generation should endeavour to adapt to new and dynamic skill sets.

### WEBINAR ON ENVIRONMENTALLY SUSTAINABLE PLANNING WHILE RESUMING INDIAN ECONOMY POST-COVID

Amity School of Architecture and Planning, organised Webinar on Environmentally Sustainable Planning while resuming the Indian Economy post-Covid. Dr. Anil Kumar Roy, Associate Professor, Faculty of Planning, CEPT University, Ahmedabad addressed all the participants on various environment-related planning issues with reference to present and post COVID-19 situation in the country. He discussed the likely impacts of Covid-19 on India, its cities, and its economy. He discussed also on the consideration of ecological sustainability while planning and rebooting the regional economy in India. The agendas of his entire discussions were focused on three key areas as follows:

1. Finding relations between sustainability and regional economy in India
2. How sustainability can be brought in practice while achieving the economic targets?
3. Perspective on achieving sustainable development goals in line with dropping down the economy. Besides, he also mentioned that it has become more evident in this difficult time that the environment plays a critical role in establishing the balance between humans and living entities such as animals and plant species and the impact of anthropogenic activities on the environment. At the end, he emphasised the inclusive planning and pro-futuristic approach integrating basically spatial, social, and economic inclusion. This was followed by rounds of question and answer session. This webinar received a good number of participation from outside AUH such as AUUP Noida, CEPT University, Smart Fellows of MoHUA, participants from Kurukshetra and Maharshi Dayanand Universities in Haryana.



### ARCHITECTURAL EDUCATION IN PANDEMIC TIMES

**Guest Lecture on Architectural Education and Profession in Pandemic Times by Ar. Habeeb Khan, President, Council of Architecture, New Delhi and Dr. Padmakali Banerjee, Pro-VC, Amity University Haryana**

Amity School of Architecture and Planning, Gurugram had organised an online dialogue on Architectural Education and Profession in Pandemic Times on 16th July 2020. The main objective of the session was to discuss the challenges faced in the Architecture Profession and address the queries of the students of Architecture from various Universities and Institutions across India.

Dr. Padmakali Banerjee, Pro Vice-Chancellor, Amity University Haryana, addressed the participants and welcomed the President, Council of Architecture. She motivated the students for performing well and being resilient in the times of crisis. She assured all the students for every support from the University's side in order to continue and excel in education even in these difficult times.

Ar. Habeeb Khan addressed the participants before the interaction session. He appreciated the leadership of Amity University Haryana and the efforts of the Pro Vice-Chancellor in managing the education in pandemic times. Students from 8 schools of architecture from different universities across India (Amity Universities- Gurgaon; Raipur; Kolkata; Lucknow; & Jaipur: GGSIP University, Bundelkhand University and Gautam Buddha University), participated in this event and also asked following questions.

1. Challenges in online education in architecture and shift in approach to teaching and learning architecture in the short and long term.

Ar. Habeeb Khan assured the students that there will not be many changes in the architecture curriculum and approach post COVID. He insisted that there is no substitution for hands-on-learning and experiential learning in architecture. On-campus education will start as soon as the situation is normal and learning environments are safer.

2. Concerns in student community regarding the latest Supreme Court judgement related to the practice of non-practicing architects.

Ar. Habeeb Khan explained 'The Architects Act 1972' and the entire context in this regard. He assured the students that this judgement does not have any major




impact on architecture practice in India. However, he also told the students that the Council of Architecture is in communication with senior lawyers and is going to take legal steps for challenging the judgement.

3. Internships in online mode. In pandemic times many students have shown great concern for getting appropriate internship opportunities on work from home basis. The Council of Architecture had also earlier supported students in this regard. Ar. Habeeb Khan advised Schools to impart practical training to students which are close to the training which students get from working in architectural offices as a substitute.

4. Job opportunities and concern of low salaries. Many students raised issues of getting low initial salaries even after undertaking a rigorous 5 years' long course. Students felt that this situation is going to worsen during this pandemic. Ar. Habeeb Khan assured them that architects generally do well and prosper after the initial few years. He assured the students that after the pandemic is over and when the economy starts showing positive signs, the job scenario for architects will surely improve. He motivated students to keep patience and work hard till then.

Ar. Habeeb Khan satisfactorily addressed all the questions from students. Towards the end, he also announced that NATA 2020 will be conducted in online mode and details regarding these will be published soon by Council of Architecture. Overall it was an interesting and knowledgeable session for the students and faculty.

### MANAGEMENT LESSONS FROM THE COVID 19 PANDEMIC

**Prof Dr Padmakali Banerjee, Pro Vice Chancellor, Amity University Gurugram**

*The industrial revolution sparked great debates about management theories. Taylor propounded the 'Principles of Scientific Management*

*which emphasised on simplifications of jobs and the need for coordination between managers and workers*

We are experiencing the most unprecedented and unforgettable times of our lives. It is said that dreams should be lived and life is meant to be explored. Each moment has something to learn from. And this unique time of pandemic will leave us with many lessons in life and management.

Post Industrialization, many management theories evolved, each of them from the experiences of their times. The industrial revolution sparked great debates about management theories. Taylor propounded the 'Principles of Scientific Management which emphasised on

simplifications of jobs and the need for coordination between managers and workers. Fayol, after him, emphasised on efficient company's structure in his 'Administrative Management Theory. A chain of command and the need for Standardisation was felt by Weber's Bureaucratic Theory. Elton Mayo's theory brought out the importance of people in the workplace and as a result the Hawthorne theory became a landmark in management. Douglas McGregor's X and Y theory talked about the results of positive motivation in the workplace. Each of these theories still has some relevance in the modern management.

Read the full Article of Business World Wellbeing website : <https://bit.ly/35XCvBe>



### STUDENT CLUBS



Cultural Activities Club



Robotics Club



Aero Modelling Club



Dramatic Club



Music Club

## PANEL DISCUSSION ON ART, CULTURE & VALUES AS THE SAVIOUR OF HUMANKIND DURING COVID-19



Amity Center for Sanskrit and Indic Studies, Amity School of Liberal Arts and Amity Skills Institute, University Haryana invited art leaders and influencers to share how they are adapting to their new realities and to discuss the role that art, culture and values play in

promoting a positive and creative thinking in response to the pandemic. Also discussed was how this crisis might reshape societies and the kind of conversations that artists and cultural influencers can help lead during these challenging times.

Padmashree Shovana Narayan talked about India's rich art and cultural heritage and what according to her contributes to the value system in India. She talked about her journey from a bureaucrat to an artist.

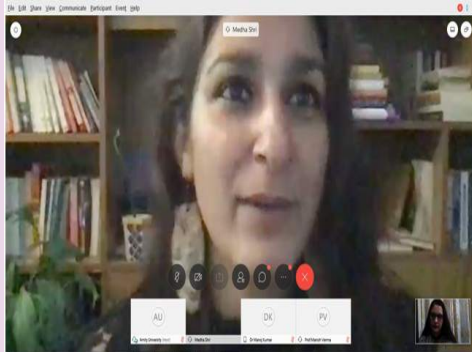
She was kind and enterprising enough to charm and enchant the audience and the participants, in that fortunate and opportune moment, by showing some Kathak Mudras and Bhavas expressing the present Corona crisis.

Being an artist, a writer and an inspiring leader for youth, Honorable Pro Vice Chancellor, Prof. (Dr.) Padmakli Banerjee talked about how she thinks art, culture and values can help humans deal with crises like the present Coronavirus crisis.

Professor Sanjay Kumar Jha, as the head of Amity School of Liberal Arts spoke on how Liberal Arts or the values emanating from Liberal Arts can play the role of a saviour for the humankind in this ongoing pandemic of Corona.

Dr. Padmakli Banerjee, Pro Vice Chancellor, Amity University Gurugram gave concluding remarks with her unmatched wisdom. Moderators, Dr. Reena Nigam and Dr. Supriya Sanju did a splendid job by keeping the session well catalogued and highly engaging.

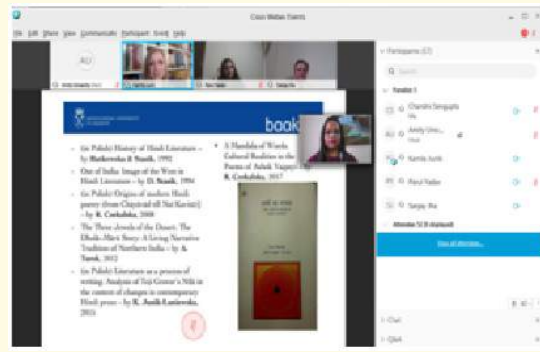
## WEBINAR ON HOW TO UTILISE THE LOCKDOWN TO BE A BETTER JOURNALIST



various options available to polish one's professional skills and make the most of it when we all are supposed to stay back homes. Several students and faculty members attended the session. The speaker, Ms. Medha Shri Dahiya, LifeStyle Journalist, Hindustan Times described how we can inculcate new skills using digital technology e.g. building a website, Podcasting, learning Photoshop, video editing, learning any new language and reviving reading habits and so on. Besides, she also discussed the nuances of celebrity journalism and the qualities required to become an eminent journalist. Ms. Medha Shri also urged to raise voice on gender biases in the entertainment industry and shared her own experiences in this regard as well. The Webinar was concluded by Dr. Manish Verma, Hon. Director, ASCO with a vote of thanks. This Webinar was truly a delight for the students as well as faculty members in the times of stress caused by the lockdown.

The Webinar was an opportunity to discuss and explore various ways to make the best use of time in the times of prevailing lockdown due to the spread of COVID -19. Ms. Medha Shri Dahiya being an entertainment and lifestyle journalist apprised upon various ways to combat the problem and honing skills professionally as well as personally. The major objective of organising the Webinar was to explore the

## WEBINAR ON INDIA – POLAND CULTURAL EXCHANGE: HINDI LANGUAGE AS A TOOL



The Amity School of Liberal Arts (ASLA) organised a Webinar on India-Poland Cultural Exchange: Hindi Language as Tool on the 4th June, 2020. The Chief Resource Person of the Webinar was Dr. Kamila Junik, Assistant Professor, Institute of Middle and Far East, Jagiellonian University, Krakow, Poland. An Indologist, Orientalist and Culture Expert, Dr. Junik spoke eloquently about the development of Indology in Poland with special emphasis on the Hindi language. She also threw light on the collaborations between India and Poland in the field of language and literature.

Dr. Junik spoke at length about the institutionalised practice of learning Hindi, Sanskrit and other Indian languages in Poland. She also elucidated the need to focus on translations from Hindi to Polish and vice versa. With her varied academic interests and a career in teaching Hindi spanning almost two decades, Dr. Junik shared her personal experience of learning Hindi in Poland. The Webinar was attended by more than 60 students and faculty members of Amity University Haryana as well as some faculty members of the Jagiellonian University. There were a couple of attendees from other Indian universities as well including the University of Delhi and Noida International University. There was one attendee from the Brandenburg Institute of Technology, Cottbus-Senfthenburg, Germany. There was also one attendee from the Ministry of External Affairs, Government of India.

## ART EXHIBITION VISIT



An educational tour for ASFA faculty and students was arranged to the 59th National Art Exhibition organised by Lalit Kala Akademi, Ministry of Culture, Govt. of India. More than two hundred contemporary art works were displayed in this exhibition. Different kinds of medium, conceptual ideas, and display of art

works helped Amity students gain a professional perspective to their chosen field of learning. This visit surely inspired students to create something new in their own art work. ASFA regularly organises such visits to good art exhibitions to help broaden the perspective of its students.

## WORKSHOP ON WATER COLOR MASTER CLASS WITH MS. AMBBALI BHATTACHARYA INTERNATIONALLY RENOWNED WATER COLOUR ARTIST

Amity Skill Institute organised workshop on Water Colour Masterclass on 14th July 2020 by Ms. Ambbali Bhattacharya internationally renowned water colour artist. She is also an art educator and an art activist. She has been a part of several international art exhibitions. Her works have been featured in leading newspapers and magazines in India. She conducts regular online and offline watercolour courses and workshops. Some of her tutorials are also available online for viewers.

In this workshop she explained about various techniques used in watercolour as a medium. She explained with example using some of her previous work. She then started painting, explaining each and every stroke, demonstrating as she explained all the techniques used to bring out all the elements of a painting. She taught the students how to bring in the depth and how to cater to the perspective of near and far. She even explained how to show movement in a painting as that of waves. Many participants created the same painting as instructed by her simultaneously. In the end, they were required to send their feedback and their paintings to Ms. Ambaali, who would then give her inputs to the participants based on their work. It was a very informative session.



## ONE-DAY SYMPOSIUM ON CURRENT TRENDS IN MEDIA & COMMUNICATION STUDIES RESEARCH

Amity School of Communication organised a one-day symposium on Current Trends in Media & Communication Studies Research on August 29, 2020. Owing to the pandemic, the symposium was organised on virtual platform and was attended by around 100 participants. The participants included research scholars, students and faculty members from AUH and outside. The three invited speakers for the symposium were Prof. Ruchi Kher Jaggi, Director, Symbiosis Institute of Media & Communication; Dr. Vikas Dogra, Professor, Department of Journalism & Mass Communication, Himachal Pradesh University, Shimla; and Dr. Divya Sharma, Professor, Western Connecticut State University, USA. The main objective of the event was to apprise the participants of the



latest trends in communication research and to provide a platform for better theoretical and conceptual understanding of communication research. The initiative also aimed to provide a platform to the young research scholars for discussing any challenges that they were facing in their doctoral research. Prof. Ruchi Kher Jaggi began her talk giving an overview of media and social science research in India and abroad. She talked about the importance of having a sound conceptual and theoretical grounding before undertaking research. Dr. Jaggi also discussed latest research studies from the communication and media domain undertaken in India and abroad.



She also discussed the importance of argument building and using appropriate research design. Dr. Vikas Dogra, Professor, Department of Journalism & Mass Communication, Himachal Pradesh University, Shimla emphasised on the importance of interdisciplinary research in today's evolving scenario. Prof. Dogra also talked about challenges that a researcher faces while conducting communication research. He advised the researchers attending the symposium to publish their work in good journals. Dr. Divya Sharma, Professor, Western Connecticut State University, USA, talked about communication research related to crime and other social issues. She advised the young researchers to be very careful while conducting research and not letting their personal biases be reflected in their writing. She also talked about difference in fact and opinion in media. Your research must aim at understanding problems around us and finding possible solutions through policy making. Overall it was a very interesting session for all the students of communication.

**Department: Solar Engineering**

**Title: Design & Fabrication of steam generator coupled with storage tank using Nano fluids as heat transfer fluid**

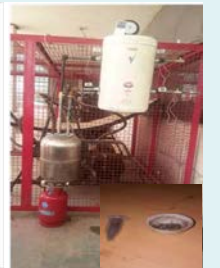
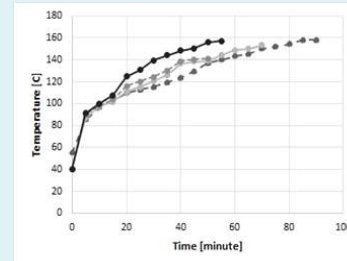
**Student: Gerald Kwinjo, T. Munetsiwa; M Tech SAE**

**Guide: Dr. Subhra Das (ASET), Dr. Ayana Bhaduri (ASAS)**

**Accepted for 5th Green and Sustainable Chemistry conference to be held in Germany Nov. 2020.**

A thermal storage coupled with steam generator is fabricated to produce steam at a faster rate using nano-fluids. The thermal storage system is fabricated using cheap and locally available materials. Water with copper oxide nano-particles is used in steam generator to produce steam at 140°C which is stored in the storage tank.

Thermal storage system is experimentally studied to investigate the heat transfer characteristics of the nano fluids, charging & discharging characteristics of storage tank.



**Department: Biomedical Engineering**

**Development of an Optimal Wound Sealing Strategy by Screening Natural and Synthetic Biomaterials**

**Innovators: Arushee Srivastava and Vimal Kishor Singh, B.Tech (Biomedical Engg)**

**Aim:** The aim is to study various types of wounds and identify different strategies for making the best suitable wound sealing agent in order to create an instant hemostat or barrier, repair acute tissue injuries, and facilitate long term repairing of surface wounds by improving healing time. A variety of wounds, natural physiopathology, and assisted healing techniques have been studied. A plethora of biomaterials and antibiotics of biological and synthetic origin have been scrutinised based on their biological and physicochemical properties suitable for wound sealing. The dressing must delay excess trauma by retaining fluids, delivering drugs, and mitigating blood flow. It should be non-immunogenic, anti-inflammatory, biocompatible, portable, inexpensive, easy to fabricate, and stable under adverse weather conditions.

**MAJOR ACHIEVEMENTS:**

**Table 1. Evaluation of Biomaterial Based on Salient Properties**

Four biomaterials were chosen based on their properties; Alginate for keeping the wound moist, collagen for

	Bio-compatibility	Immu-nogenicity	Inflam-matory	Wound Healing	Haemostatic Ability	Drug Delivery	Water Retention	Drawbacks	Used in
Alginate	Yes, bioactive	No	No	keeps wound moist	Proficient, Best with Zinc	Possible thru porosity. Pectin inc. delivery	Absorb extra fluid	Impurities can cause immunogenic response	exulcating wounds, infected post-op wounds, leg ulcers
Collagen	Yes, bioactive	Weak antigenicity	No	wound contraction, granulation tissue formation, angiogenesis	Proficient, Better than Cellulose	Ciproflaxin mediates wound closure	In sponge form	weak antigenic properties	open, dry wounds
Chitosan	Yes, Biodegradable	Immu-stimulatory activity	Yes	create inflammatory microenvironment for healing	Proficient, Superior to Plain Gauze	safe & effective	N-Succinyl type	Unstable, low mechanical resistance	temoral wounds
Polycaprolactone (PCL)	Yes, biodegradable, bioresorbable	No	No	mimics ECM with Collagen	Proficient, best with gelatin	PCL & PEG used for drug delivery	absorb extra fluid	poor antimicrobial properties, needs silver nanoparticles, bad mechanical properties	acute & chronic wounds

wound healing, chitosan for an inflammatory environment beneficial for healing, and polycaprolactone for mimicking the extracellular matrix. The best performing combinations will be mixed with an antibiotic alternatively to see which is the superior antibiotic agent.

**Table 2. Evaluation of Wound Healing Agents and Therapeutic Wound Healing Delivery Device Based on Salient Properties**

	Advantages	Disadvantages
Gentamicin	broad spectrum, shortens wound healing duration(collagen sponge), controls bacterial growth, improves post op outcomes	mostly ineffective against anaerobic bacteria, fungi and viruses, can't be absorbed thru intact skin
Ciprofloxacin	effective against skin, skin structure infections, active against many Gram negative/positive bacteria, no cross resistance with other classes of antibiotics	Can only be indicated in infections caused by certain susceptible bacteria
Bacitracin	bacteriostatic, bactericidal, works well with gram positive bacteria, burned & granulated skin	gram negative bacteria are resistant, only for minor skin injuries, common allergen
Diferuloyl Methane (Curcumin)	anti-microbial, coagulant, inflammatory, accelerates wound restoration by stimulating production of growth factors, enhance granulation tissue formation, collagen deposition, tissue remodeling and wound contraction, stimulatory at low doses, topical application better than oral	inhibitory at higher doses, hydrophobic nature significantly limits its application, works on acute wounds

Two wound healing agents were chosen based on their properties; Gentamicin since it's a broad range antibiotic and curcumin because of it's antimicrobial and wound restoration properties. A glass spray bottle will be used for experimentation with these selected biomaterials and antibiotics inside, using glass slides and Duran bottles for preliminary testing.

	Even Application	Ease of Use	Aseptic	Portable	Availability	Price	Reactivity	Size	Flexible	Hemostatic Ability	Water Retention
Aerosol Can	Yes, even sprae of biomaterial	Simple	Yes	Yes	Common	Expensive due to filling techniques	Closed Al/Sn/ plastic+ steel environment	3ml volume	N/A	N/A	N/A
Spray Bottle	Yes, even sprae of biomaterial	Simple	Yes	Yes, but fragile	Common	Affordable	Closed glass environment	3ml volume	N/A	N/A	N/A
Gauze	Yes, equal distribution of biomaterial	Simple	Yes	Yes	Uncommon, electrospinning facility	Expensive, extra step integrati on	Nonreactive	3cm larger than wound on all sides	Highly	Proficient coverage of wound	soakage of exulcates
Foam	Yes, equal distribution of biomaterial	Simple	Yes	Yes	Uncommon	Expensive, due to multiple layers created	Nonreactive	3cm larger than wound on all sides	Highly	Proficient coverage of wound	soakage of exulcates many times weight

**EXPRESSION OF THE WSSV PROTEIN VP28 IN SHRIMP (PENAEUS MONODON) ON EXPERIMENTAL CHALLENGE**

**Utkarsh Kumar Sharma ( B.Tech – Biomedical Engg) , Vimal Kishor Singh, Associate Prof., Biomedical Engg.**

**Abstract:** Shrimp is one of the main aquaculture species in the world. Different viruses affect them, which causes serious mortality to economically important species, such as Penaeus Monodon. White Spot Syndrome Virus (WSSV) is a major shrimp pathogen causing large economic losses in aquaculture. WSSV is a highly lethal, stress-dependent virus, which belongs to the family Nimaviridae, genus Whispovirus. This virus infects a

wide range of aquatic crustaceans by vertical and horizontal transmission, with different mortality results. The spread of infection between regions may be due to infected shrimp and carriers such as other crustaceans, seabirds, aquatic arthropods or other vectors. This virus has a large circular double-stranded DNA genome (300kb). The virus particles contain at least five major virion proteins, of which three (VP26, VP24, and VP15) are present in the rod-shaped nucleocapsid and two (VP28 and VP19) reside in the envelope.

The focus of this work is to study the expression of the VP28 gene of WSSV in Bacterial Expression system using cloning method.

**Major Points:** The WSSV viral envelope consists of different proteins, of which VP28 and VP26 are the most abundant, accounting for approximately 60% of the envelope. VP28, encoded is the major envelope protein and several studies suggest that VP28 may play a crucial role in the initial steps of systemic WSSV infection in shrimp. Furthermore, there is evidence that WSSV VP28 plays an important role in the infection process as an attachment protein, binding the virus to shrimp cells, and helping it to enter into the cytoplasm. It has been assumed that VP28 may contribute importantly to the recognition of receptors at the shrimp cell surface due to some potential glycosylation sites.

**LOW-COST VENTILATOR**

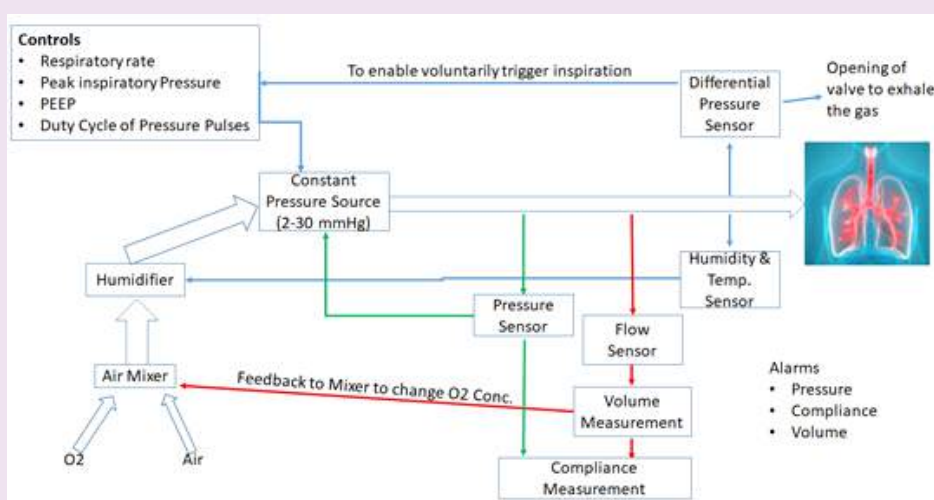
**Sandeep Panwar Jogi and Manoj Kumar Pandey**

**Guided By: Dr. S N Sridhara**

In the COVID situation inaccessibility of technologies, lack of indigenous technology, lack of rapidly developed solutions and unavailability of healthcare products were faced worldwide. Purpose innovation addresses the most in-demand product, i.e. the ventilators, which are known to be the most significant therapeutic equipment in the case of COVID-19. The objective of the project was to develop low cost, rapidly developed, indigenous solution following an autonomous technology for the nation primarily to help during the COVID-19 pandemic.

**UNIQUE FEATURE:**

- Custom-built ICU Ventilator
- Rapid Development Solution
- Flexibility to upgrade as Neo-Natal Ventilator and to upgrade as another mode of Patient-Ventilation
- Equipped With Additional Monitoring Capabilities
- Closed-Loop Control Options are available



**DEPARTMENT: COMPUTER SCIENCE ENGINEERING | INTELLIGENT HUMANOID ROBOT**

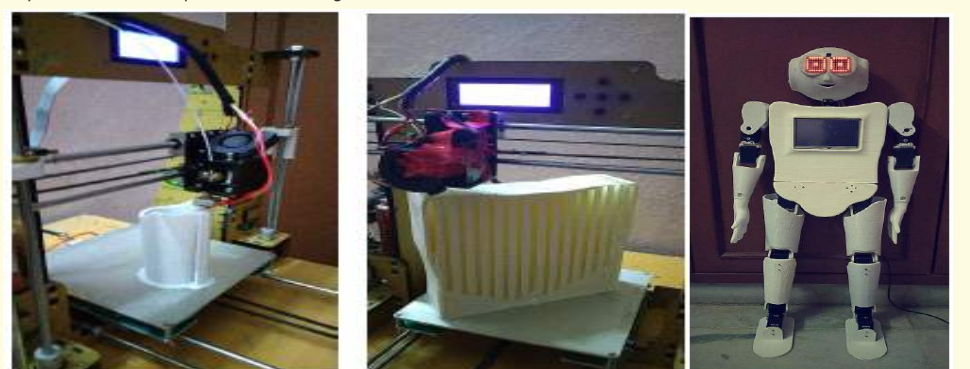
**Developed by: I Pavan Kumar Raju, M.Tech (2018-20 Batch)**

**Guide: Dr. Sunil Sikka, Mr. Ankit Garg, Mr. Manoj Pandey**

**Abstract:** Humanoid robotics is an emerging and challenging field of science, which has expanded its growth in recent years and will play a very important role in the future. Irrespective of the applications of robotics, Artificial Intelligence plays an important role to solve complicated traditional problems and unlocks further possibilities to achieve new objectives. Cost is one of the biggest drawbacks in humanoid research as the manufacturing of the robot and allied electronic components involved in the research increases the overall budget of the project. This project presents the design and fabrication of a cost-effective 3D printed humanoid robot that has the ability of face recognition and is able to perform basic body gestures, to respond to human speech and to navigate in all directions. To enhance the human machine interface, an android application is developed to enable the user to control the features and operation using the mobile device. Traditional face recognition algorithm requires high processing power to work in real-time. This work tends to develop an optimised face recognition algorithm into the robot which can run with low processing power maintaining good accuracy even in real-time. Deep neural networks are used to implement the face recognition using transfer learning and support vector machines (SVM).

**INNOVATIVE FEATURES:**

- Designed with 3d printing technology
- Android app for controlling movements of the robot
- Integrated face recognition algorithms into it with an accuracy of 93%
- This robot can be used as an assistant robot at office, airports and other public places to greet the known customers, respond to customers queries and assisting them with the directions





**DEPARTMENT: ELECTRONICS AND COMMUNICATION ENGINEERING**

**Project Title: IoT based Intelligent Home Automation System**  
**Developed By: Shubham Ghanghas (B.Tech final year student)**  
**Guides: Sonal Dahiya, Manoj Pandey**

**Abstract:**

Home automation has made its way from science fiction movies to the forefront of consumer market. It is not just the new buzzword; it is making life simpler and less demanding. In this project innovative Home Automation System is developed which uses conventional development board with sensors and include concepts like deep learning techniques via cloud for provision of idiosyncratic features. This low cost and reliable control and monitoring system runs over internet and is therefore free from physical restrictions. This Smart Home Controller could be fitted inside home without infrastructure changes. The proposed system consists of a Raspberry Pi, a camera, android mobile, Relays, multiple sensors. The feed

from the camera will take pictures and match them with households to make sure only authorised people get house access. The computation will be done on cloud using AWS. The user can also control the system using android based application. This System also responds to voice commands to Google Assistant. The System is very flexible and user friendly.

**Innovative Features of the project:**

1. Only authorised people will get house access (made by using Raspberry Pi, Pi camera and AI based image processing)
2. Lights of house will be automatically operated based on sensors
3. Plants of the house will be automatically irrigated based on soil moisture
4. Android mobile can be used to control home appliances
5. It uses internet so the physical distance between user and the system does not matter to control home appliances
6. The system is cheap, easy, and convenient to use



**DEPARTMENT: CIVIL ENGINEERING**

**Permeable Pavement for Storm Water Management**

**Students Involved:**

1. Kapil Joshi (M. Tech TRE 2018-2020)
2. Siddhant Patel (M. Tech TRE 2018-2020)
3. Siddharth Jain (M. Tech TIE 2019-2021)
4. Sudipta De (M. Tech TIE 2019-2021)

**FACULTIES INVOLVED:**

1. Mr. Lalit Kumar (Assistant Professor, Civil Engineering department /ASET)
2. Dr. Ashish Kumar Dash (Assistant Professor, Civil Engineering department /ASET)
3. Mr. Sambhav Jain (Assistant Professor, Civil Engineering department /ASET)

**ABSTRACT**

Nowadays, the areas which should have vegetation have big infrastructures. The excessive use of impervious coverage has left the cities with the challenge to manage increased runoff volume. This absence of natural surfaces has disrupted the water cycle. This pervious pavements can be used for increasing the ground water depth especially in India where there are very less storm water management systems. The pervious pavements have

been designed for parking areas and the outcome has been proven to be really effective.

**INNOVATIVE FEATURES**

Permeable pavement offers a number of environmental benefits. Increasing the amount of storm water infiltrated can result in lower stream flow levels after storm events, increased stream base flow due to increased groundwater recharge, and increased stream stability through reduced stream velocities and peak flows.

Evaporation from beneath the permeable pavement can produce a cooler surface helping reduce the heat island effect often experienced in urban settings.

The materials used in permeable pavement and its foundation are capable of retaining soluble and fine particulate nutrients, sediments, heavy metals, and other pollutants from storm water runoff thus improving the quality of water that enters surface waters and groundwater.

Coarse particulate removal is not advised due to issues with clogging, so some pretreatment may be required in addition to regular maintenance. Some stormwater pollutant loads may also be reduced as permeable pavements can act like a biofilter where microorganisms break down contaminants. Studies have reported reductions in sediment (60-100 percent), total nitrogen (40-80 percent), phosphorus (40-80 percent), BOD (60-80 percent), bacteria (60-80 percent), and metals (40-80 percent).

Mix No.	W/C	Porosity %	Void ratio %	Compressive Strength (N/mm <sup>2</sup> )		Permeability
				7 Days	14 Days	
1.	.36	13.5	15.7	1.82	2.20	1.05
2.	.32	27.8	38.6	1.63	1.91	1.10



## AMITY COLLEGE OF NURSING FACULTY ACHIEVEMENTS

Dr. Bharathendra Sharma, Associate Professor, ACON, received the Punctuality of Presentation Award for his paper presentation in International workshop on Diabetes & COVID-19: A Dual Challenge organised by Saksham Society, Jaipur, Rajasthan during 24th to 26th July 2020.



**INNOVATIVE PROJECTS**

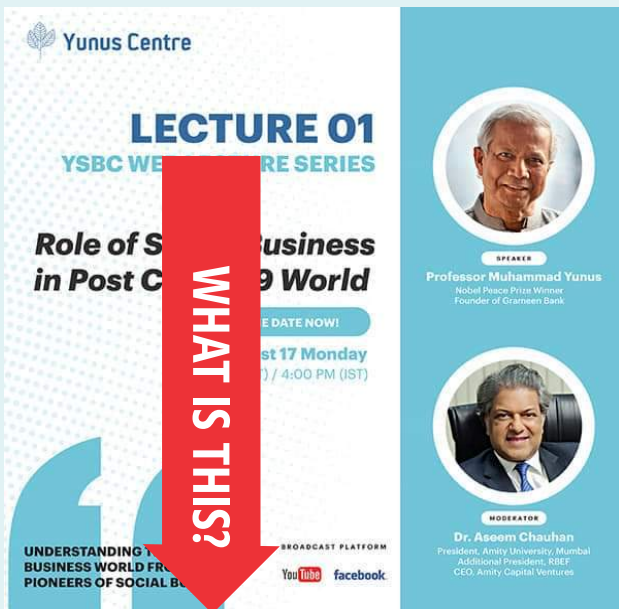
Child Health Foundation, Timonium, USA, selected the research proposal of Amity College of Nursing (Evidence based research study to prevent Child Mortality) and provided the Innovative Small Grants awards. Mentioned that the proposal was one of fewer than ten which was selected out of 230 proposals. Received 1000 US dollar for this innovative project.



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Orientation week was organized from 31st August to 5th September 2020. The Following days saw important workshop, alumni interactions, talent hunt competitions, Corporate Lectures and Buddy interactions.

Day-2 1 September, 2020 Tuesday	<b>Overview</b> on academic delivery and teaching learning by Prof. Dr. Bhavana Adhikari, Dy. Dean Academics; Introduction & Interaction with Deans, Hol's and HoD's by Prof. (Dr.) Padmakali Banerjee, Pro Vice Chancellor & Dean Academics; Workshop on Creation with Imagination by Amity Institute of Design
Day-3 2 September, 2020 Wednesday	<b>Alumni: Success Stories</b> Mr. Arup Chakraborty, Deputy Manager- International Business, Abdos Labtech Limited; Dr. Asit Debnath, Medical Director, Mother's Care Children Hospital and Research Centre; Mr. Abhinav Kumar, Senior Consulting Analyst, Frost & Sulivan; Mohan Gautam, Sr. Engineer, ASK Automotive Pvt. Ltd. Gurgaon; Rajat Verma, Assistant Manager, Maruti Suzuki India Ltd.; Divyanjali, Sr. Configuration Analyst, AON Consulting Pvt. Ltd.; Ms. Tanvi Dubey, Project Manager - NPD, Napio Continental Auto Products Limited; Mr. Rajguru Parashar, Senior Technology - Application Technology, Siegwark India; Ms. Priyanka Baweja, Product Safety and Regulator Specialist, Siegwark India; Mr. Mohit Sharma, Manager - Sales and Marketing, Nestle
	<b>Inspirational anecdotes - Stay Positive</b> Mr. Subhash Jagota, CEO, Global Business Solution Expert Talk on What do Humanities and Liberal Arts do? Prof. U.N. Singh, Prof. Chair, Liberal Arts Workshop on Live sketching ASFA
Day-5 4 September, 2020 Friday	<b>Presentation on Security, Hostel, Discipline, MTC and Clubs</b> - Dean Students Welfare, Maj. Gen. G S Bal <b>Presentation on International Programmes and International Initiatives</b> - Dr. Gunjan M Sanjeev, VP, RBEF & Director International Affairs <b>Workshop on Animation</b> - Dr. Manish Verma, Director ASCO; Ms. Esha Jainiti, Dy. Director ASCO and Team <b>Session on Holistic Wellbeing for Youth</b> - Dr. Suresh Sharma, Director, AIIMS, Rishikesh and Dr. Sameer Malhotra, Director and Head - Department of Mental Health and Behavioral Sciences, Max Super Specialty Hospital, Saket Amity Skills Institute Buddy / Student Representative introduces the Institute / Interaction with Parents
Day-6 5 September, 2020 Saturday	<b>Virtual Tour of Flora &amp; Fauna at AUH</b> by ASEES   <b>Live Culinary Masterclass by Expert Chef</b> from Amity School of Hospitality   <b>Poster making competition</b> on Individual's Goal   <b>Talent Hunt Finale</b> - With an objective of student engagement and identifying new and diverse talent. (Group Dancing, Singing, One Act Play, Acting, Jam Session, Instrumental, Animation, Film Making, Gaming, Mimicry, Theatre, etc.)



**Yunus Centre**

**LECTURE 01**  
YSBC WEB LECTURE SERIES

**Role of Social Business in Post COVID-19 World**

**WHAT IS THIS?**

**SPEAKER**  
Professor Muhammad Yunus  
Nobel Peace Prize Winner  
Founder of Grameen Bank

**MODERATOR**  
Dr. Aseem Chauhan  
President, Amity University Mumbai  
Additional President, RBEF  
CEO, Amity Capital Ventures

**DATE NOW!**  
17 Monday  
10:00 AM / 4:00 PM (IST)

**BROADCAST PLATFORM**  
YouTube Facebook

**UNDERSTANDING BUSINESS WORLD FROM PIONEERS OF SOCIAL BUSINESS**



Mohammad Yunus (Nobel Peace Prize winner, Founder of Grameen Bank) in conversation with Dr. Aseem Chauhan (President, Amity University Mumbai; Additional President, CEO Amity Capital Venture) on Role of Social Business in Post COVID19 World under YSBC Web Lecture Series by Yunus Centre. During the insightful session, he also shared advice for aspiring social business entrepreneurs.

## INNOVATIVE ACADEMIC LANDSCAPE AT AMITY UNIVERSITY HARYANA: ENABLING FLEXIBILITY, ADAPTABILITY AND CREATIVITY DURING COVID 19 PANDEMIC TIMES

contd. from page 3

### TEACHING FRATERNITY: THE KEY DRIVER TO SUCCESS

The management of the University ensures involving faculty in the strategic academic decision-making process. It believes that the faculty is the intersection between the students, academics, technology, learning management system, information technology, research and innovation and governance. They are the central pillar at the university supporting teaching and learning, research and innovation as well as service to the community. The intent is to drive transformational change at a greater scale using the right skill, aptitude, knowledge and network to ensure a good fit aligned with Amity's mission and vision. Avenues devised and practiced through experience led faculty members is enriching. It is at par with the face to face traditional education format. The pedagogy used by the faculty members, who are able to share the study material in their domain well in advance, is commendable and reflects a sense of ownership and proactiveness. The faculty members ensure utmost care and compassion in these times of crises. The smooth transition to the online mode of delivery was facilitated through in-house training to the faculty members coupled with constant support from the information and technology department of the university. It was encouraging to see that faculty found the flexible and interactive nature of digital intervention better than the classroom based learning. Faculty feedback suggested that the online mode helps address certain challenges of the traditional teaching learning system. These include student's retention, attention span and attendance which showed a marked improvement in the online mode as the students are able to focus better with fewer distractions. Since the time AUH deployed fully online mode of education, the engagement of students boosted the retention rates upto 80%, though surprising yet this mode of learning made the students more attentive and active listeners. Further the faculty observed that online education provides a greater degree of flexibility and thus can be less stressful and easier to manage alongside other commitments. Creativity through content by the faculty members also added value to the knowledge exchange making it more vibrant. Online classes proved to be a good and viable platform to recapitulate and provide supplementary knowledge to the students. Students access the study / reading materials in the form of power point presentations, research papers, PDF reports, news articles, YouTube videos and other relevant course material was also enhanced in the online mode. A library resource is an asset to the University wherein high-level intellectual grows and increases the intellectual potential of the fraternity. During this period we have ensured continuous knowledge support to the fraternity through the University library online link with a mechanism to access all the e-resources, e-journals editions from Taylor and Francis, Scopus and Science Direct, Manupatra, IEEE, Jstor, AIR, Delnet, EBSCO etc. to name a few among many others. Through this not only our faculty members are able to facilitate reading materials to the students but also are able to enhance and enrich knowledge to disseminate and conduct further research through reviews conducted from these resources.

### KNOWLEDGE CREATION THROUGH RESEARCH

The foundation for any innovation discourse comes from the academic fraternity through the introduction of new processes, bringing new ideas, dissemination of new knowledge, publishing and authorship. Along with intellectual and experienced academicians, academic infrastructure equally plays a critical role in dissemination of knowledge with the support faculty through computers, laboratory with latest technology / equipments, logistics, plantations, green house, energy efficient infrastructure, environmentally sustainable green infrastructure, information and communication technology, labs and other academic facilities are vital for sustainable development. These facilitate the academic fraternity in publications and developing new knowledge. A good innovation strategy with robust policies helped to support the effort of the faculty and scientists. National lockdown proved to be a good opportunity for the faculty members to focus on high end research and publications. The intent of partnerships with academia, industry and research institutions is to transfer knowledge from lab to practice. This practice that was deployed gave an edge to pursue funding opportunities for the talented faculty

on board and enable students and academic fraternity to exchange ideas across internal and external community. The faculty fraternity at AUH even during the period of national lockdown is striving hard in continuous research deliverables. Faculty members have contributed publications indexed in SCOPUS / SCI / PubMed / Springer / Thomson Reuter / ICI with a cumulative Impact Factor of 250.85. The total number of projects approved during this period is 4 while projects submitted for approval are 20 across the 17 institutions to ICMR, SRMB, DST, Action COVID Team, DBT BIRAC etc. for appropriate funding opportunities. This is in regular practice in developing new knowledge research and innovation. Few select publications at national and international level include Books and Chapters with Advances in Chemical Sciences; Springer Nature Singapore; Intech Open Publishers, UK; Apple Academic Press; Springer Nature Switzerland and many more. In this period our faculty members have also been awarded with accolades through national and international platforms. One such accolade of publication of an article in Observer Research Foundation (ORF) Raisina Debate Expert Speak Series - Asia's one of the most prestigious public policy think tank and another one in International Union of Forest Research Organizations (IUFRO) Vienna Occasional Paper among others. The University also supported all our research scholars to accomplish their doctoral degrees and thus as per the academic framework, presentations with progress of their PhD work have been conducted before the Research Advisory Committee (RAC) and Departmental Research Committee (DRC). Few of our scholars from Faculty of Management Studies and Behavioral Sciences and Faculty of Science Engineering and Technology have also completed their PhD Viva Voce examination. University led academia-industry collaborations are equally vital and thus AUH represents a major channel of disseminating of knowledge through the webinar series from very important sectors. The educators acted as a catalyst and deliberated webinars on very pertinent areas beyond just science and technology.

**The focus is to provide a holistic exchange of knowledge and thus areas such as animation, journalism, media, painting, legal education, fashion designing, opportunities in the area of commerce and management education, economics, career building opportunities, skill development initiatives including how to crack an interview, the present employment opportunities, data analytics and artificial intelligence were deliberated upon in these sessions. During this pandemic AUH hosted 30+ Career Counseling Webinars for the wellbeing of the students. AUH believes that wellbeing of the student, faculty and staff is also very important during this disruptive phase therefore motivational webinars are continuously being organised by the University. Academic partnerships within academia plays a significant role in the community and thus ample number of interactions over panel discussions are also conducted regularly through the digital platform on emerging areas of concerns and themes. The University initiated new collaborations including signing important Memorandum of Understanding with organisations like Institute of Company Secretary of India (ICSI), International Skill Development Corporation, Volkswagen and NLD Training Institute, Thimpu (Bhutan).**

During this period of nationwide lockdown, we ensured active participation from our students through different digital activities such as grooming sessions for our pre-final year students in pertinent areas such as soft skills, resume writing, life skills and wellbeing. The University holds a strong conviction in integrating with industry at every level of academic deliverables. We organised an HR conclave with eminent corporate personas at C-Suit level from Hero MotoCorp, Club Factory, Mankind Pharma wherein they shared their insights of the industry on how they were coping up with the unprecedented impact of Corona virus. At the same time it hosted industry speakers from Medanta, Mitsubishi Electric Automotive India Pvt Ltd, Blue Star India, National Institute of Agricultural Economics and Policy, Indian Council of Agricultural Research, and PWC to name a few amongst several prominent corporate giants. The intent of conducting sessions for our students even during lockdown was to provide a synthesize of information in respect to the employment challenges in the present times, expectation of task force in future employment, the transition of world economy with respect to the output and employment etc.

It is important to ensure the wellbeing and instill confidence among parents of our students; we therefore ensured regular interaction with them and boosted their confidence level with our support 24\*7. We also facilitated virtual joining for all our students who have been placed while we also provided virtual internship platform for our students to achieve greater corporate exposure even during this period to ensure sustained knowledge, experience, synergy and leveraging the 'New Normal'.

### INNOVATION AND INCUBATION

The university strongly feels that entrepreneurship must be an integral part of the academic curriculum so as to inspire innovative and creative thinking. Our student entrepreneurial aspirations were encouraged. The students floated their ideas for startups to help the society to reshape during and after this pandemic through HACK COVID 19. We strongly believe in facilitating and building self-sustainable individuals especially the deprived, marginalised and the vulnerable section of the society. The intent is to provide an ecosystem for the budding entrepreneurs across the nation. Therefore, we organised multiple events activities including fund rising in support of this cause.

### ASSESSMENT AND EVALUATION

The University transformed the assessment and evaluation process through the use of technology and internet of things. It had already made a complete shift from the traditional education format of assessing and evaluating that reflected raw reasoning power few years back. The academic team were at their best to shift much beyond the IQ assessment and evaluation and creating a space to establish the linkage between Learning Outcomes, Program Outcomes and Program Specific Outcomes. The intent is to develop critical and logical thinking within the students and thus the academic fraternity makes sure to float a framework of evaluation on "what you know, what you can do and what you are able to learn". Bloom's taxonomy plays a critical role here. The LMS platform of the University acts as forerunner of assessment and evaluation at this stage of COVID 19 Pandemic.

**Students' engagement at AUH is not limited to their participation in various events, we go a step further to involve them in decision making and evaluation. Therefore, students' feedback has been a very significant and valuable aspect of the academics and administration at AUH. A single window student service system has also ensured our constant partnership with students in managing everyday life at the campus. A great deal of attention has been given to student's emotional intelligence and wellbeing. Academic fraternity believes in students' overall performance, entrepreneurial potential and leadership competencies. Therefore, continuous support is provided to the students beyond academic assessment. Our students go through a series of face to face interviews evaluated by a corporate persona along with the in-house senior faculty member in the interview panel.**

To make the students aware on the disaster management practices, self-assessment, physical fitness and wellbeing and inculcate team spirit, the University conducts a mandatory military training camp for all its students. In the present conditions military training camp is not possible however teachers are constantly encouraging mind mapping among students so that the students brainstorm to explore and connect their individual ideas helping the students to gauge the interpersonal and intrapersonal skills.

This is done as a part of mentoring and is continued during this pandemic as well to keep motivating our students in their mental wellbeing. These actions create a space for global mindset, logical reasoning, decision making ability and resilience. These times of Pandemic are challenging but has given us terrific opportunities to unleash our infinite potential. We have emerged as winners and are rearing to explore the newer and better avenues to improve upon what can only be called the best. There is always a scope to reimagine, reinvent and reconstitute and we are committed and relentless in our mission to achieving the highest standards in the academic landscape.

## HOLISTIC APPROACH TO HUMAN RESOURCES

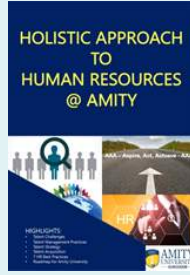


Talent Management, an integral part of the Human Resource Development domain, is not an easy proposition. Managing aspirations of professionals, coupled with the dynamic challenges of the environment; here every micro aspect needs to be handled meticulously and with due diligence. That's the challenging role of HR. **Rear Admiral Kishan K Pandey, Director – HR, Amity University Haryana shared deep insights to examine the Talent Management and HR Best Practices.** Along with his HR Team, he examined various facets viz. Talent Challenges, Talent Management Practices, Talent Strategies, Talent Acquisition, HR Best Practices and penned exhaustive recommendations. Excerpts of the Recommendations are:

**Talent Challenges:** We must manage talent positively and

proactively. Revolutionise research through the use of Big Data & Artificial Intelligence (AI) and introduce concept of Virtual Labs through AI. Bridge the gap between college curriculum and market demand through a constant effort in order to improve the shelf life of the skills being acquired by the students at the University. As Amity already stresses upon research- we should explore 'Partnership University' model wherein industry / business groups provide funding through private equity fund. It will allow employers to educate and re-skill their employees continuously.

**Talent Management Practices:** For sustaining competition and meeting global standards, the institutions need to develop new strategies and models to develop, retain and



empower their human capital. In order to attain 'Eminence', one cannot be mediocre, average or even good. High performers may be publically acknowledged, by introducing the 'Best Faculty Member of the Year' trophy for each Institute.

**Talent Strategy & HR Analytics:** Talent Strategy & HR Analytics has become a new management trend. It elevates the status of both HR rationality and creativity. It is a mix of Business Analytics and Academic Analytics. Emphasis on three tier recruitment & selection process, digital 'Performance Based' evaluation, focus on Learning & development of existing employees and maintaining their HR records digitally are some of the key focus areas.

**Competence Framework, Workforce Planning and Talent Acquisition:** Competency Framework needs to be created where functional and technical competency is described. The modern STAR methodology is to adopt Competency Based Interview (CBI) skills, where candidate

is asked to describe a particular SITUATION, what was his TASK in that situation, what were the ACTIONS that he has taken himself and what was the outcome and the RESULT.

**HR Best Practices:** High Performance Work System [HPWS] emphasise employee involvement and reflect a commitment to creating an organisational culture based upon commitment rather than control. At the same time, the cultures of high-performance universities emphasise the pursuit of excellence and expect employees to be well-qualified, highly competent, and constantly engaged in improving the organisation.

**Conclusion:** The suggested road map can be a path to EXCELLENCE ensuring a vibrant learning environment that is dutiful, inclusive and collaborative. It values learning over teaching. Supports students to develop personal and professional identity who are responsible citizens.

## BEHAVIOURAL MANAGEMENT DURING COVID-19 PANDEMIC



**Dr. Vikas Sharma, HoD, Amity Institute of Clinical Psychology** The Covid-19 pandemic is associated with significant distress, fears, anxieties and depressions. The impact may vary depending on many factors like age, personality, presence of other stressors, social support, socio-economic factors etc. From mental health perspective, the symptoms may range from general distress to anxiogenic or depressogenic manifestations. Moreover, the stress related to disease may lead to loss of individuals' capacity in selection of adaptive coping responses. The resilience and adaptive coping abilities are crucial for

healthy functioning in the times that demand social distancing and immune response. The behavioural self regulation with respect to staying indoors is required for the management of pandemic. Self control, future orientation, practice of good hygiene practices and focusing on long term shared goals can facilitate the 'health promoting' aspects linked to the disease. Human beings are essentially social; therefore the general



response to threat may involve seeking social affiliations and support. Social Support increases resilience to stress. In case of Covid-19 however, the nature of the problem and its management itself tend to weaken the social support system. Behaviours like spending quality time at home with family members and phone / video calls to friends are useful in

enhancing social support. Structured activity scheduling based on pleasure and

mastery are negatively related to depression and linked to enhanced quality of life. Further, engagement and goal directed activities are important for self esteem and positivity. Activities like practicing yoga or mindfulness, reading, writing, engagement in indoor games or activities, playing musical instrument among others can be performed in home setting.

Healthy sleep patterns may also reduce the vulnerability towards Coronavirus. Stimulus control instructions, sleep hygiene education and relaxation therapy are useful to manage sleep difficulties. The behavioural management along with medical and other psychosocial interventions within the broader biopsychosocial paradigm is required for effective management of the Covid-19 pandemic.

## AMITY'S RESEARCH AND INNOVATION BASED EDUCATION IS REDEFINING THE HIGHER EDUCATION LANDSCAPE

Amity University Gurugram, a part of Amity Educational Group, is a research & innovation driven University that has fostered the ideal environment to accelerate learning and creativity by adopting value added teaching & knowledge dissemination. Due to the rapidly evolving dynamics it is essential that traditional learning evolves into blended teaching. Amity Gurugram has been putting constant efforts to provide 'Smart Learning' to the students to make them better equipped to face present challenges. The intellectual workforce at Amity University Gurugram includes alumni of world-renowned institutions like UCSF and UCLA, USA; NUS, Singapore; Max Planck,

Germany; & Birmingham University, UK to name a few. The faculties spend maximum efforts to amalgamate research and teaching considering that a balance of the two activities is a must for providing the impetus to the University's research and innovation drive. Amity Gurugram runs approximately 52 extramural research projects running in parallel with the teaching programmes in their research cluster labs. The research clusters work actively in domains of Cancer Biology, Stem Cells, Nanotechnology, Infectious Disease, Plant-Microbe Interaction, Big Data Analytics, Robotics, and Artificial Intelligence. Amity University Gurugram has recently developed Central Instrumentation Research

Facility (CIRF), DST sponsored FIST Centers and Bionova Lab with a team of industry connect collaborators like in-campus GE Healthcare Centre for Proteomics and Genomics. The facility introduces the students to hands-on experimentation skills and practical scientific know-hows. National and international conferences, symposia, workshops are successfully organised to develop a network of global scientific communities in Lipid Biology, Molecular Medicine, Infectious Disease, Yeast Transport Energetics, & Blockchain Technology. Certainly, this kind of push is benefitting the students from UG to PhD alike. The students carry out in-house dissertations,

thus, getting an early exposure to advanced levels of science.

### MAKING STUDENTS INDUSTRY-READY

Amity's education system is centered around knowledge dissemination with a practical understanding of technological advancements and emphasis on communication and soft skills. This approach has enabled the University to skill up each of its students. The development of industry integrated initiatives with the objective to reduce the academia-industry gap and exposure to latest technology help its students acquire diverse skill sets and gain an edge over others in the highly competitive professional environment.

## WOMEN EMPOWERMENT AND BUILDING INDUSTRY



**Dr. Ila Gupta, Director, Amity School of Architecture & Planning**

It is the right time to take stock of where women in India stand now in terms of their social and economic status and what can be done about it. India has slipped to the 112th spot from its 108th position in the World Economic Forum's Global Gender Gap Index. The plight of women in India is deep rooted in the cultural norms for centuries. A lot has already been said and done especially since the mid-20th century to bring about reforms in our social structure. During 1990s, the debates and initiatives intensified as a fundamental right to woman's dignity. However, it is clear that we still have a long way to go. With all the praises for its fast development, India still is one of the most unsafe countries for women and there is a desperate need for change of attitude. This change can be facilitated through economic empowerment of our women.

### Women employment in construction sector

Construction sector is the world's largest industrial employer with 28 per cent of total industrial employment. It is a male centric profession and the percentage of women who want to break this barrier is

relatively small. In India over 35 million workers are employed in construction sector, out of which only 30 per cent comprises of women. This small section of women is usually occupying the bottom end of the construction industry as unskilled labourers and head load carriers. At the technical and managerial roles the sector is further male dominated. Women are part of up to 50-60 per cent of new graduates in India, but only 24 per cent of entry-level professionals in construction sector. It is said that out of all the women working at technical and managerial levels in construction companies, only 1-2 per cent reach leadership positions.

### Why women disappear from field?

As per census of India 2011 effective literacy rates were 82.14% for men and 65.46% for women. The financial constraints of families discourage women to get higher education. They often are dependent on the males of the family for their mobility. According to the National Family and Health Survey only 31 per cent of married women and 98 per cent of married men are employed. The reasons for this disproportionate participation are mostly common for all the sectors however when it comes to building industry, certain factors come to light. The acceptance of society for a women's role in building industry is far less. It has been

accepted that women are more stable, honest in work, maintain decorum in office and hence are preferred while hiring. Still many recruiters from the construction industry find it challenging to hire women, as not many women prefer a career in building industry considering it as unsafe. Fields like architecture also has scope for lateral professions and avenues for women. Women enjoy writing and researching / theorisation about architecture.

### Interventions

All women construction teams in Kerala Kudumbashree, a women oriented community based poverty alleviation programme, being implemented in Kerala by the State Government, tries to cure the morbid development imbalance of the State. Women's involvement in Kerala's construction sector was mostly in lowly jobs due to lack of training and experience. Kudumbashree aims to train women in all aspects of construction to guide them towards leadership positions, with a mission to turn the women from unskilled labourers into masons and contractors. In the first phase in 2018, an all-women team comprising of 6 members, built a 450 sq ft home for Rs 4.5 lakh in the coastal Panchayat of Kumbalangi in western Kochi. Now, across Kerala, dozens of such houses for the poor and destitute are being built by

similar all-women groups of Kudumbashree. This is a commendable and pathbreaking initiative of the Government for including women in the construction industry and empowering them.

### Role of Academia

Academia can play an important role for preparing the female students for this challenge from the early years. Our curricula should be modified to ensure greater participation of women in practice. The teaching methodologies should incorporate inclusivity and this issue should be dealt more sensitively and subtly. The challenges faced by women to live a fulfilling life and maintaining the work life balance has to be acknowledged. Education institutes should be gender neutral but at the same time they have to make the students ready for facing challenges imposed by the male dominated fields. Thus making our women strong enough to being able to contribute to the construction sector and our men sensible enough to accommodate the women workforce should be treated as priority. Women should be made more comfortable and confident to choose their own career and be independent. This will empower our women socially, economically and emotionally and we would move towards being a more inclusive and progressive nation.

## LAW AND SOCIETY: DYNAMIC RELATIONSHIP



**Maj. Gen. P. K Sharma**  
Prof. & Director - Amity Law School, Dean - Faculty of Law Amity University Gurugram

People tend to think of law as slow moving, immutable and disconnected from daily life. In fact, law is dynamic and keeps evolving with the needs of time and society. It is actually an integral part of our daily lives and before the current pandemic hit the world, any number of debates on news channels could be found discussing the validity / necessity etc. of Gay Rights, Uniform Civil Code, rights of the accused as in the 'Nirbhaya' Case, developments in Commercial laws and their impact on the growth of industry etc. However, what is now being talked of is what laws govern this pandemic situation! Why is it important to study the relation between Law and Society, one may ask? The answer maybe in the way both law and society influence each other. Law, though it is the product of the society, is responsible for social transformation. Whereas on one hand, it is often said that law is the reflection of the will and wish of the society, and if you want to study any society, you must study the laws enacted by that society, on the other hand, in today's technology driven global world, laws enacted to meet the global standards are compelling the society to change according to the same. It may be said that when law changes the society, it is the sign of beginning of the development of the society and when society changes law, it is the sign of maturity of the society. Sociologists believe that societies differ from each other due to the social norms or core beliefs of a given society, about what it considers moral or immoral, acceptable or unacceptable, good or bad, which in turn leads to different Legal Systems and Laws. These social

norms often provide the building blocks for many of our laws. So, the question arises as to what is law? Law has many definitions and jurists have over the time developed many theories to trace the origin and development of law and legal systems. The various schools of thought, which may broadly be classified into, Philosophical, Analytical, Historical, Comparative and Sociological, do not only differ in their approach in defining law but also in what they consider to be law.

For example, to the scholars belonging to the Analytical School, law is the command of the sovereign backed by sanctions (Austin, 1832). In other words, the exponents of the Analytical School study the relation between Law and the State and presume the existence of a developed legal system. In contrast, the Historical Jurists study the relation of Law with societal institutions like values and customs and according to them, Law is a customary rule spontaneously evolved by historical necessity and popular practice. The Comparative School of thought defines Law by comparing different legal systems to ascertain the general, permanent or essential legal doctrines as opposed to those that may be specific to certain areas or situations. The Philosophical School of thought is more concerned with the purpose of Law and the methodology used for achieving the said purpose. It defines Law as the consequence of human reason with the goal of improving human nature. Lastly, the Sociological Jurists view Law as a social function, concerned with the Society's relation with its individual members (Salient Features Of Sociological School Of Jurisprudence, 2020). It may thus be surmised that the proponents of each of the above Schools of Thought define Law according to either what they considered to be the purpose of Law or how according to them Law came into existence.

What can be gathered from above is that law serves a purpose in every society or legal system. Some of the purposes may be summarised as: Social Control Law prescribes: what is acceptable or unacceptable behaviour and provides sanctions or punishments for deviance, thereby acting as a formal method of social control in large and diverse societies where individual members or sub-groups have differing values, attitudes etc.

• **Justice or Dispute Resolution:** Disputes or disagreements between members of a society will arise and an important function of law is to provide resolution to these disputes. Where a law already exists, the courts perform the function of dispute resolution. In cases where the disputes relate to subjects not governed by law, the legislature intervenes, and a new law is enacted. Besides dispute resolution, law also provides justice, it is there to preserve human dignity and equality for all.

• **Social Transformation or Change:** Law plays an important role in bringing about social transformation or the way society behaves by providing rights or restrictions. The year 2020 is the beginning of a new decade and over the past two decades many new acts and legislations have been enacted which have been responsible for social transformation either because the law compelled the society to change or because the changing societal norms demanded / necessitated it. Also, many laws that were enacted in the first decade have since been repealed or amended to meet the needs of the changing dynamics of the globalised world. Law does not always protect the rights of people, it at times puts restrictions on their rights and the deference bestowed on legal systems masks the dysfunctional aspect of Law. Dysfunctional, meaning that the Law

promotes inequality or serves the interest of a smaller number of individuals or a class / group in opposition to the welfare of the society at large (An Introduction to Law and Society, n.d.). Some laws may be discriminatory or maybe misused by some members of the society or due to the socio-economic divide may tip in the favour of the powerful.

**Law and society are interrelated.** Some of the new laws and amendments to the existing laws that India has witnessed in the past decade are a testament to the fact that law is not isolated and is often a result of external events. For example, the recent amendments to the Criminal Law, like decriminalisation of Adultery, the recognition of the Third Gender Rights, The Muslim Women (Protection of Rights on Marriage) Act, 2019 or the inclusion of Right to Privacy within Right to Life and Personal Liberty, guaranteed by Article 21 of the Constitution of India, are a direct result of changing societal norms and values. Other Laws like the Competition Act, The Companies Act, 2013, The National Food Security Act, 2013 or The Insolvency and Bankruptcy Code, 2016 were enacted due to the changing political and economic ideologies.

Law may be viewed as a means for resolving conflicts that arise occasionally amongst the members of a society who otherwise live in harmony with each other having similar values; or it may be viewed as a means of compelling people who essentially have conflicting interests to coexist by prescribing minimum standards and sanctions for non-compliance. Either ways, it may be summarised that law and society are both dynamic and influence each other in their growth and development.

## PROSPECTS OF SOLAR ENERGY IN RURAL HARYANA, INDIA



**Dr. Pallavi Sharma, Professor,**  
Amity School of Architecture & Planning

Due to the rapid growth of industrialisation and regular power cuts during peak periods of days, the demand for energy has increased. In Haryana, solar energy is available in good amount which can be tapped to generate electricity by means of SPV technology. Usage of 'Solar Silicon Cells' is to turn solar energy into electrical energy. The produced electricity can be used at once or via battery storage systems for various applications. HAREDA has two types of Solar Power Plant Projects promotion programmes, which are:

a) Off-grid Solar Power Plants: The organisation consists of Mono / Multi Crystalline Solar Cells PV Module of 1 kW to 100 kW, with and without a battery bank along with Power conditioning Unit (PCU).  
b) Centralised Off- grid Solar Power Plant With Led Street Lights: It consists of solar cell, battery bank, solar charge controller, inverter / power conditioning unit, street lights, poles, LED-based accessories and fitting. During the daytime, the solar panel converts the sun into

electricity (DC), and the generated electricity is stored by the solar charge controller in a battery bank. The stored electricity would then be used for LED street lights or to power other devices such as machines, fans, lamps, etc. The device consists of a 1 kW to 100 kW Mono / Multi Crystalline Silicon Solar Cells PV module with battery bank, power conditioning unit (PCU) and LED based street lights numbers (Max.7 nos. of 20 watts / KWp) with a 5-meter pole, pole-to-pole cable, fitting all accessories. The area required for Rooftop Solar PV Plant depends on the following:

a) Shade-free roof area: Shade-free roof area is emphasised, as shadows influence the activity of PV plants. When a shadow falls on a panel, the percentage inevitably fires away and the entire panel has to be put back. Under no assurance can this be grasped. Tinctures can derive from:

- Neighboring structures like Hoardings, Mobile phone towers, Trees, etc.
- The PV plant itself

b) Panel efficiency: The efficiency of the panel is measured regarding the region occupied by the panel. We can now infer that a solar photovoltaic rooftop system usually needs 10 m<sup>2</sup> of free shade area per

kilowatt of power. Photovoltaic solar plants weigh between 30-60 kg / m<sup>2</sup>. This is advised not to be built in sheds with roofed asbestos. They don't pose a problem to concrete roofs. A metal roof also may or may not carry its cargo as easily as wind load and expert advice should be chosen. In an area vulnerable to cyclones it's a significant factor. A Solar Lantern is a 7 Watt CFL battery, 12V 7AH, and electronics. It is made of metal or plastic or fiberglass, and a 100 Watt photovoltaic (PV) module. The battery is charged by electricity generated by the PV module. Solar Lantern is a portable lighting device suitable for indoor or outdoor lighting which works 3-4 hours a day. The LED home lighting system is based on SPV technology which helps convert sunlight via solar cells into DC electricity. The generated electricity is to be stored in the batteries and can be used during night time hours to operate two LED lights. The organisation consists of a module with 12W SPV, 12 Volt 20 AH and a total of 15 Lux. A solar street lighting system (SLS) is used as an exterior lighting device for street and subject country illumination. The schemes consist of an SPV module, a luminaire, a storage battery, interconnecting wires,

electronic controls, mounting pole panel, and a battery case. The luminaire is white LED based. The luminaire is positioned at an angle around a pole to achieve optimum earthly illumination. The PV module is positioned at the pole's peak at an angle facing south, so it absorbs solar radiation all day long. A battery is mounted in a box fixed to the pole. The electricity generated charges the battery during the daytime. The machine will light up in the evening and turn off at sunrise.

With the above analysis we can conclude that a lot can be achieved in terms of renewable energy in Haryana



## BENEFITS OF YOGA IN IMPROVING QUALITY OF LIFE



**Dr. Samridhi Lal**  
Assistant Professor, Amity Institute of Pharmacy, Amity University, Haryana

Yoga is an ancient Indian science and practice for spiritual, mental and physical development of the body. It is over 5000 years old practice introduced to the world by great scholars of ancient India. The word Yoga is derived from the Sanskrit word "yuj", meaning to join or unite. The science of Yoga has been mentioned in many ancient Indian texts including Vedas, Upanishads, Smritis and scholarly texts of Sanskrit grammarian and sage, Panini and Patanjali. Vedas which are the oldest scriptures in the world have extensively mentioned the significance and benefits of yoga. During the Vedic period, many yoga techniques including

Pranayama, Surya Namaskar (sun salutation) and Meditation were a part of daily routine and are well documented in Yajurveda. Upanishads considered yoga as the oneness of breath, mind and senses. Treatment of various diseases is well documented in theories of these valuable scriptures. Yoga is a valuable integrative practice which can positively modulate and improve healthy functioning of body and mind. It modulates a balance between three energy forces or doshas of the body - 'Vata', 'Pitta' and 'Kapha'. Any imbalance or disorder in these energy forces causes disease. The most commonly performed practices of yoga include dhyana (meditation) pranayama (breathing exercises) and asanas (physical postures). These yoga practices oxygenate cells and regulate the physiological machinery while improving the efficiency of mind and other organs. Yoga practices reduce the rate of

cellular ageing and provide longevity by reducing inflammation and oxidative stress. It has been reported in several scientific studies that yoga fosters the efficiency of the brain and reduces anxiety, stress and fatigue. Bhramari Pranayama is particularly useful in reducing stress and inducing a tranquilising effect on the nervous system. It improves the functioning of the nervous system by modulating the hypothalamic-pituitary-adrenal axis. Similarly, Kapalabhati Pranayama is beneficial in overall strengthening of body organs along with improving the levels of iron and vitamins. Regular practice of yoga detoxifies the body and maintains the genomic integrity of cells which has been demonstrated by increased telomere (tip region of chromosomes) activity which modulates the cell-cycle and its instability is linked with many diseases including cancer, diabetes, asthma and psychiatric disorders.

The physical postures, twists and breathing movements of yoga improve the blood flow into body organs and strengthen the immune system to fight against chronic disorders, cancers and other infectious diseases. Further, yoga improves cognition and reduces cellular oxidative stress which is particularly beneficial in cancer prevention. It optimises the release of various neurotransmitters and chemicals in the body which regulate the functioning of cells. Yoga is particularly beneficial in managing chronic disorders where no single intervention has proven effective and treatment medications come with long-lasting adverse effects. Also, it is convenient for the geriatric population where exercise is a constraint and causes energy expenditure. On the other hand, yoga results in conservation and utilisation of energy in healthy functioning of physiological processes. By practising yoga people can prolong youth and lead a healthy life. It is the key of healthy ageing and overcoming complex disorders and their associated co-morbidities.

### REALISE YOUR DREAMS HERE AT E-CELL, AMITY INNOVATION INCUBATOR, GURUGRAM CAMPUS

Amity Innovation Incubator at AUH (All-AUH) is focused on stimulating the establishment and growth of technology-based start-ups companies and other compatible businesses by providing new and emerging technology and compatible businesses with an environment that would support their start-up phase and increase their likelihood of success. The All creates an innovation eco-system in the chosen thrust areas by focusing on research and suggest best and novel practices to be adopted by different stakeholders in the innovation chain. It has a clear philosophy to encourage and incubate technology based new enterprises with innovative products and services with a mandate to strengthen collaboration between industry and academia and turn ideas into visible businesses and encourage the students for entrepreneurship.

**Broadly, All-AUH will provide the following services to its incubatees:**

- Mentoring and Advisory
- Financial Advisory and Support
- Infrastructure and Support

**Entrepreneurship Cell (E-Cell):** The E-Cell at the University is actively involved in creating an ecosystem of entrepreneurship and start-ups in the campus by providing various opportunities to students to interact with entrepreneurs under the series of 'Friday Fortnight – Real Entrepreneurs, Real Stories'. The Cell is also involved in organising Entrepreneurship Awareness Camps and providing support to the students' venture through Amity Incubation Centre. The E-Cell, under All-AUH organized various events and activities, such as:

- Entrepreneurship Awareness Camps
- Fortnightly lecture series – 'Real Entrepreneurs, Real Story'
- Idea and design thinking workshops
- B.Plan competitions
- Hackathons
- Entrepreneurship Boot camps
- Brainstorming sessions

Startup Orahi, a ride sharing app, specially developed for the office-goers so that people can make most of the time they spend commuting to office and back through a powerpoint presentation. The session continued focusing on his experience till now. Many questions were posed by the attendees and the questions were answered with full conviction.



**Real Entrepreneur, Real Stories / Friday Fortnight by Ms. Parul Mehta, Founder, Resercho on April 01, 2020** At first, Ms. Parul presented her Startup Resercho, an academic

networking website and app, a platform where students, teachers and other professionals can upload their Academic work such as their notes, assignments, projects, research work and so on through a powerpoint presentation.



**Real Entrepreneur Real Stories/ Friday Fortnight by Ms. Priyanka Vashishth, Founder 360 Degriss on April 07, 2020.**

Ms. Priyanka presented her Startup 360 Degriss (provides client-friendly work space for offices, financial institutions and retail chains), then continuing onwards the importance of being NICE - Networking, Innovation, Curiosity and Entrepreneurship through a powerpoint presentation. The session continued focusing on her experience till now. Many questions were posed by the attendees and the questions were answered with full conviction.



**Real Entrepreneur Real Stories/ Friday Fortnight: by Mr. Vinamra Mittal, CEO and Co-Founder of Stealth Mode Startup on April 17, 2020** Mr. Vinamra presented an overview of Stealth Mode Startup and continued focusing on his experience till now. Many questions were posed by the attendees and the questions were

answered with full conviction.



**Covidathon 2020** on May 08, 2020. Panelist: Mr. Ojasvi Babbar; Prof. (Dr.) Vikas Madhukar; Mr. Vijay Vir Singh; Prof. (Dr.) S N Sridhara introduced Amity Institution with the purpose of bringing the innovative & implementable ideas over the global pandemic COVID-19. Covidathon is an opportunity for students and working professionals to build software solutions and also innovative ideas that drive social impact, with the aim of tackling some of the challenges related to the current Coronavirus (COVID-19) pandemic. The event witnessed the participation of 12 teams. They proposed diverse solutions towards decreasing the impact and safeguard humanity from the global pandemic. It was a great pool of new approaches having the underlying spirit of problem solving where each idea aimed to invent the technological solution to save the planet.



**Real Entrepreneur Real Stories/ Friday Fortnight: Dr. VP Sajeewan, CEO, ESY India, Ex Director, Canon India Pvt Ltd. On June 18, 2020** At First, Dr. Sajeewan presented an

overview on how the lockdown period has affected everyone across spheres. He emphasised on the value of becoming multitaskers at such trying times and how can we convert these challenges into real opportunities. Then he continued over the entrepreneurship qualities. The session continued focusing on his experience till now. It was followed by a detailed question and answer session.



During the year, the Centre has organised various events and activities to inspire and support young entrepreneurs, which are as below:

**Real Entrepreneur, Real Stories/ Friday Fortnight: on March 31, 2020 by Mr Arun Bhati, Founder ORahi**

At First, Mr. Arun presented his



### Presentation on ENTREPRENEUR IN RESIDENCE (EIR) PROSPECTS UNDER TIDE 2.0 MIETY G3C June 9, 2020



IDEA / PROPOSAL	SHORTLISTING PROJECTS FOR NECESSARY FUNDING TO DEVELOP PROTOTYPE	TEAM
Development of Rapid Point of Care System for Diagnosis of Corona Virus Disease	To target different protein markers of COVID-19 for development of POCT device to the direct diagnosis of COVID-19 from patients sample with more sensitivity, specificity, less cost and in less time.	Mr. Deepak Kala (PhD - Nanotechnology) Dr. Ankur Kaushal, Associate Professor
3D Manufacturing of N95 Mask having Inherent Antimicrobial Properties	In-house manufacturing of N95 masks having enhanced properties using 3D printing technique to meet current high demands. In-house design and production of polymeric raw material having antimicrobial properties.	Dr. Atul Thakur, Professor and Director Mr. Manish Kumar, Asstt Professor
Portable and ICU Ventilator	Our solution target the indigenisation, rapid development solution and cost effective solution. • Design of low cost ventilator with all clinical requirements • Components are readily available in open market can be purchased off the shelf • Simpler assembly and testing procedure	Dr. S. N. Sridhara, Director, ASET Mr. Sandeep Panwar, Research Scholar Mr. Manoj Kr. Pandey, Faculty
Anti-Microbial, Multi-Purpose Face Mask	A Three-Layered, Reusable, Biodegradable, Anti-Microbial Face Mask	Dr. Arvind Chhabra Dr. Monika Vats, Ms. Neha Kuhar Dr. Shatendra Sharma Dr. Satish Sardana
DECARTEM/VIRTUO	A virtual Video Conferencing Platform, which is more secured, catering to Education, Corporate, Healthcare etc.	Mr Aaryaman Bahadur Mr Kritesh Bisht Mr Aditya Ranjan

## #AMITYSPOTLIGHT

"Being a student from Turkey, I've never felt as an outsider. Amity fraternity has truly been welcoming and a family away from family and a home away from home. With splendid academics and strong all round development through varied sports initiatives and student led societies, my journey at #AmityUniversityGurugram was really incomparable." says **Enes Agir** (B.Tech CSE 2016-20).



"With the aim to become a Cinematographer, when I was searching for varied institutes, I found Amity to be the best option to grow and learn in the media sector. #AmityUniversityGurugram has helped me in enhancing my skills through varied experiences and world class exposure. I have grown up to be an experienced and professional photographer with the help and guidance of the Amity fraternity. I am truly thankful to Amity for helping me to become an able individual with the required skills for this industry." says **Mayank Lawas** (B.A(J&MC) 2018-21).



## #INTERNSHIP

"With the innovative learning & practical exposure at #AmityUniversityGurugram, I had the privilege to work as a Crime Scene Investigator with Gurugram Police, aiding them to analyse and investigate at the crime scene. The assistance and knowledge I have obtained at Amity University has helped me to perform my duties with ease. For me, Forensic Science couldn't have been more exciting" says **Shivaay Bagga** (B.Sc Forensic Sciences, 2017-20).



## STUDENT LENS

#STUDENTLENS captured by **Akshay Sharma** (MCA 2018-2021) From 9-5, there is hustle bustle of classes, but for rest of the time, it is just an empty hallway with stories paved in every brick, from every lunch break to free classes. Which was your favorite hallway that you used to hang out at? Let us know in the comments!!



#STUDENTLENS captured by **Aman Mangla** #AMITYUNIVERSITYGURUGRAM

As the Pandemic persists, even the campus has started feeling lonesome. All that the serene beauty of the campus now lacks are the students.



#STUDENTLENS captured by **Mamoon** (BSc Animation 2018-21). The red buildings in the campus stand tall, almost touching the heights of the blue sky. This is also how we see our students: Standing tall and reaching new heights in whatever they do and wherever they go.



#STUDENTLENS captured by **Yakrita** (BA JMC 2018-21). Clouds make their way onto the monsoon sky as they loom over the Hostel Plaza at campus.



## STUDENT'S ACHIEVEMENTS



**Mr. Shivendu Kumar**, B.Planning 8th Sem. represented Amity School of Architecture and Planning, Amity University Gurugram in an Interactive Online Ideathon conducted by National Institute of Urban Affairs (NIUA), Delhi on 13th May 2020. He presented his views on 'Using Treated Water at Household Level'. This webinar received entries from the students of various eminent institutes such as SPA-Delhi, CEPT-Ahmedabad, IIT-R, TISS Mumbai, JNU-Delhi and NIRMA University. Moreover, Mr. Shivendu also earned a certificate for scoring 76% in a National level E-quiz on Covid-19 organised by ITM School of Architecture and Town Planning, Lucknow.



**Ms. Srinidhi Harihar**, B.Planning 8th Sem., wrote an Article – 'An Awesome Guide to Become a Woman of Strength' for IcyTales, (an online youth magazine from Vancouver) published on 5th May 2020. The article deals with few tips and tricks for women to be strong and face today's world with utmost power and strength.



**Varsha Gulia (BFA 2016-2020)** Varsha Gulia (BFA) secured the commendable Gold Medal in 27 Art Point All India Online Competition, 2019.



**Mr. Ajay Sudharsan L.**, B. Planning 8th Sem. was invited for presenting his internship work on "Mobilization of Green Spaces by intensifying Recreational use in an Urban area" in Urban Design Thinking Workshop, jointly organised by Gesellschaft Fuer Internationale Zusammenarbeit (GIZ) and Municipal Corporation, Coimbatore on 14 August 2019.



**Reshika Chaudhary (BFA 2016-2020)** Reshika secured a prestigious Zonal Award (Student Category) in Camlin International Art Contest, 2019



**Ms. Saloni Jain**, B. Arch 8th Sem., secured First Position at LIT ARCHI AWARDS in essay writing. Her essay was focused on the topic of "Architecture Influencing Environment." LIT ARCHI AWARDS was organised by A3 Foundation at Le Corbusier Center, Sector-19, Chandigarh on 7th December 2019. The event encompassed and welcomed famous writers and authors from across the country.




**Aarti Mathur (BFA 2017-2021)** Aarti Mathur (BFA) received second award in National level art contest organised by Art Wali Gali, New Delhi



**Ms. Chanda Malhotra**, alumni Amity School of Architecture and Planning (B.Plan. 2013-17), received 'British Council 70th Anniversary Scholarship' for the academic year 2018-19 for pursuing her Masters in Transport Planning and Engineering at Edinburgh Napier University. This was a fully funded scholarship which was provided to 100 Indian women including Ms. Malhotra.

pursuing her Masters in Transport Planning and Engineering at Edinburgh Napier University. This was a fully funded scholarship which was provided to 100 Indian women including Ms. Malhotra.

2020 Admission Open



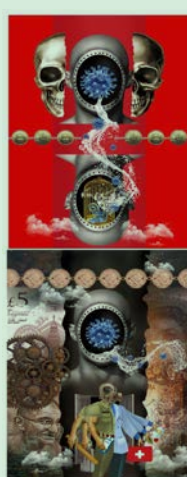
UG Courses in:  
**Allied Sciences**

- B.Sc. – Dietetics & Applied Nutrition / Medical Lab Technology/Molecular Medicine & Stem Cell Technologies
- Bachelor of Optometry



## FACULTY ACHIEVEMENTS

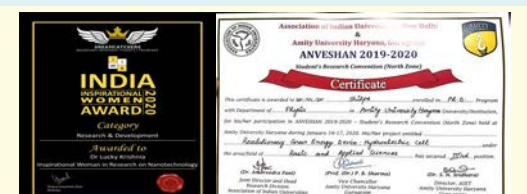
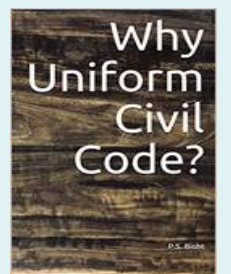
#FACULTYSPOTLIGHT **Rakesh Kumar Chaudhary** (Assistant Professor, Amity School of Fine Arts) recently received National award & appreciation for his paintings in All India Online Art Exhibition (organised by Soul & Spirit Art Society, Haryana) & National Level Online Art Competition on CORONA (organised by Sri Kalakshetra, Artists Welfare Association, Tirupati, Andhra Pradesh). Through his paintings, he has depicted the pain of migrant labourers who are rendered homeless & jobless due to COVID 19 as well as, appreciated and honoured the front line workers for their contribution.



**Name of Faculty:** Prof. Dr. Panuganti C.S. Devara  
**Designation:** Director, ASEES; Professor & Head: ACOAST-ACESH, AUH  
**Achievement:** EMINENT SCIENTIST AWARD 2020  
**Awarded by:** Environment and Social Development Association through the Hands of Honourable Justice, Swatanter Kumar, Former Judge of Supreme Court of India, and Chairperson of National Green Tribunal.  
**Occasion & Place of Award:** World Environment Summit 2020 & Vallabhbai Patel Chest Institute (VPCI), University of Delhi.  
**Date of Award:** 19 January 2020  
**Background of Award:** Outstanding and Original contributions in the fields of Atmosphere, Oceans, Air Pollution, Health and Climate Change. Some glimpses of the award are appended.



Maj. Gen. P.K Sharma (Retd.), Prof. & Director ALS, Dean Faculty of Law and Mr. PS Bisht, retired DIG Police and an Alumni of ALS AUH (LLM 2017-2018 Batch), authored a book titled "Why Uniform Civil Code?"



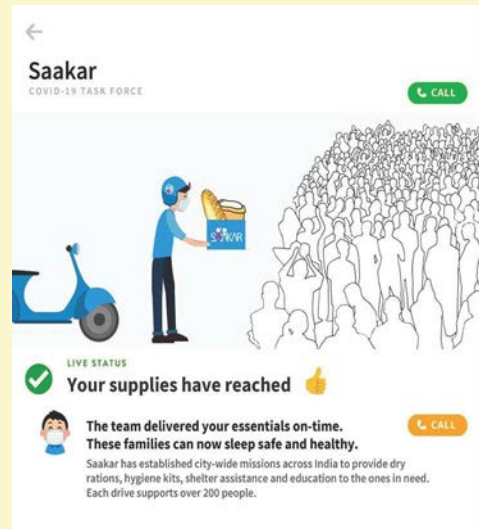
## STUDENT CLUBS

### CINE CLUB

Cine Club (Amity School of Languages) screens foreign language movies on regular intervals. This not only helps the students in understanding the diction of the native speakers but also provides them a peek into the culture of the countries by giving a holistic approach to understanding the language & the culture.



**#AMITYFORSOCIETY #AMITYUNIVERSITYGURUGRAM'S** social responsibility group, Saakar has made hyper local teams in around 50 cities and areas to attend to the needs of the underprivileged. The group is also actively working to help the elderly to get groceries and medicines.



### SAAKAR CANVIAR

Saakar Canviar 2020, organised by Social Responsibility Group- Saakar - Serving Humanity, is an innovation in the pursuit of human service, making it India's first socio-cultural, techno-management campaign to unite the youth to serve the humanity. It comprised of 50+ events and activities, igniting the spirit to serve for a better society. #internationallyouthday



### JHANKAR CLUB



## STUDENT WORK



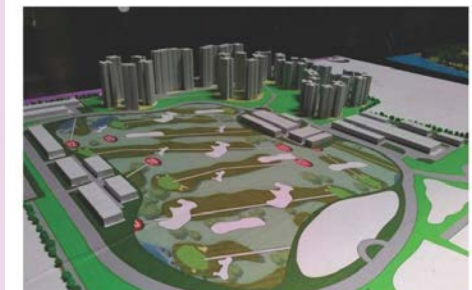
THESIS WORK - Multi-Specialty Hospital, Mr. Ritesh, VIII Semester, ASAP



THESIS WORK - Office Complex, Abhishek Gaur, VIII Semester, ASAP



THESIS WORK - Beachfront Resort, Ms. Nidhi Jindal, VIII Semester, ASAP



THESIS WORK - Luxury Apartment Housing, Mr. Ayush Patwa, VIII Semester, ASAP

### Architecture Design Studio work of ASAP students



Amity University Model, B.Arch 1<sup>st</sup> yr



Cultural Centre, Ms. Tannum Negi



Madarsa School Complex, Mohd Ifham



Training Centre, Ms. Neha Sharma



Purvi Gulyani  
Title - "Ray of Hope"  
Medium - Charcoal and Graphite on paper  
Size - 21.0 x 29.7cm  
Year - 2019



Reshika Chaudhary  
Mysterious Lines  
Acrylic on Canvas  
2x3 feet  
2019



Outdoor Installation by Mr. Swati Thakran (Amity School of Fine Arts NFA II Semester)



Priyam  
Beautiful Life  
Graphite and charcoal on paper  
8.3 x 11.7 in  
2019

## GRADUTE DESIGN COLLECTION: PORTFOLIO OF FASHION DESIGNING STUDENTS



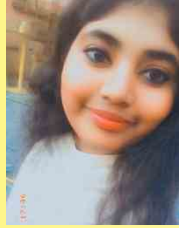
## STUDENT ACHIEVEMENTS



**Bibhu Ranjan Mohanty (BFA 2019-2023)**

- Bibhu Ranjan Mohanty received National award (3rd Position) for Dance performance from National Youth Parliament 2019, Government of India

- Received 1st position for his art in Chief Minister trophy "Prativa Puraskar" 2019 organised by Govt. of Odisha, Ministry of Culture in collaboration with Odisha Lalit Kala Academy
- Received 1st position in folk dance, National Inter College Youth Fest 2020 organised by Amity University Uttar Pradesh



**Chinmaya Ligi kumar (BFA 2019-2023)**

- Chinmaya Ligi Kumar received 1st Award in Art Competition at The Green Olympiad 2019 UNESCO organised by Ministry of Environment Forest & Climate Change, Government of India

- Received 1st position classical dance (Bharatanatyam) in 15th annual day, celebration organised by Srinivishath Dance Academy, Faridabad
- Received 2nd position in Folk Dance, 16th MTNL Perfect Health Mela 2009 organised by Heart care foundation of India (Govt. of India)
- Received 1st position folk dance of Kerala (Pulikkali) at Republic Day Parade 2014 organised by Ministry of Defence, New Delhi organised by Amity university Uttar-Pradesh, Noida



**Ms. Anjali Gouthalia, B.Planning 2015-2019**, received third prize for her thesis by GBCI (Green Business Certification Inc.) in Convocation 2020, Amity University Haryana. Her thesis was entitled as 'The Environmental Impact of Tourism on Agra City'. She has worked with World Wide Fund India for about a year and presently she is employed at United Way, New Delhi.

about a year and presently she is employed at United Way, New Delhi.



**Mr. Jinson Abraham, M. Planning 4th Sem.**, secured third Position in 'Photography Contest' in NOSPlan in December 2018 hosted by Nirma University, Ahmedabad.



**Megha (BFA 2018-2022)**

Megha received a honor as State level cricket player by Haryana Association of Sports, Haryana



**Purvi (BFA 2019-2023)**

Purvi received silver medal at national level online painting competition organised by Ek Nazar Art Club, New Delhi

Two of our Students Mr. Raghav Sharma (BA LL. B(Hons.) 2012-2017 Batch) and Mr. Apoorva Bhardwaj, Ph. D Scholar at ALS, AUH have been selected in the Delhi Judicial Services 2019 as

Judicial Officers.

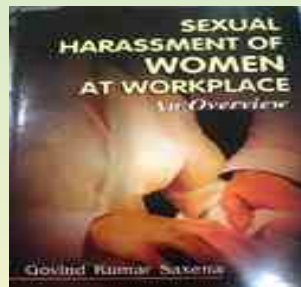


Mr. Raghav Sharma



Mr. Apoorva Bhardwaj

Mr. Govind Kumar Saxena, Ph. D Scholar at ALS, authored and published a Book titled 'Sexual Harassment of Women at Workplace: An Overview



## HEALTH EFFECTS-POSSIBLE IMPACT OF CORONAVIRUS PANDEMIC IN THE REGION AND WAY FORWARD

The amount of particulate matter that can be inhaled and subsequently absorbed in the human respiratory tract is highly dependent on particulate size as well as solubility. The smaller the particle, the deeper it can penetrate into the respiratory tract. The factors that influence where particles in air are deposited as they are inhaled and the principal mechanisms of deposition for each size range, exists. The mechanisms involved in particle deposition to surfaces within the human respiratory system are the same as those that govern the removal of particulate matter from the atmosphere; these are impaction, sedimentation, and diffusion. In general, particles having aerodynamic diameters of 5-30 ( $\mu\text{m}$ ) are



deposited in the nasopharyngeal region i.e. nose, nasal cavity, and throat). Impaction is the predominant deposition mechanism in this region because of the high air speeds and the many turns in this part of the respiratory tract. It is imperative to mention that aerosol factors influencing Airborne Infection, with particle size:  $<5\mu\text{m}$

"droplet nuclei" from coughing & sneezing and deposition site depends on particle size and hygroscopicity. The chemical composition of the aerosol particle depends on relative humidity (RH), desiccation (loss of moisture), temperature (generally greater inactivation at higher temp), Sun light, UV inactivation of microbes, and the factors influencing air movement: winds, currents, mechanical air handlers, etc. Seasonal factors such as precipitation, air currents, pollen sources are major causes of air pollution. Chemicals inactivating airborne microbes (OAF= Open Air Factor) enhance their ability to cause infection in a host. It has been observed that CORONAVIRUS disease is contagious or infectious and no evidence exists in the world that it is airborne. Some Common airborne infectious diseases such as viral disease, bacterial disease, Adeno Virus, Respiratory Bordetella Pertussis, Whooping infection cough, Herpesvirus, Chicken Pox, Yersinia Pestis, Pneumonic Plague, Pox Virus, Small Pox, Staphylococcus Aureus, Wound infection, Toga Virus, Rubella, Mycobacterium, TB Tuberculosis, Orthomyxo Virus, Influenza, Legionella Pneumophila, Legionellosis, Paramyxo Virus, Measles, Mumps, Bacillus Anthracis, Anthrax Rhabdovirus, Newcastle Cooxiella Burnetii Q fever are some of the bioaerosol diseases. Some more diseases caused by bioaerosols are hypersensitivity or allergic diseases those result from exposure to antigens (of indoor bioaerosols) that stimulate an allergic response by the body's immune system, although susceptibility varies among people. However, there is no evidence seen by the researcher of presence of NOVEL CORONAVIRUS in ambient air or it is adsorbed along with ultra fine particles during the pandemic, but there is a strong need for future research in India on this issue urgently.

(Dr. Sanjeev Agrawal), Prof. & Head, ACAPC & ASEES, Director of Amity Centre for Air Pollution Control (ACAPC), Amity University Haryana, Gurugram, India.

## FOUR-DAY INTERNATIONAL WEBINAR SERIES ON "VIRTUAL LEARNING IN NURSING EDUCATION: AN EMERGING PARADIGM"

Amity college of Nursing, Amity University, Haryana organized four-day International Webinar Series on "Virtual Learning in Nursing Education: An Emerging Paradigm" through zoom from 29th July to 1st August 2020. The conference was well attended by eminent academicians, faculty members and students from reputed educational institutions from different parts of the country more than 1400 participants participated and gave their valuable feedback for the webinar series. The objectives of webinar series were to enhance the quality of learning and teaching in nursing education and bridge clinical and classroom experiences. Four technical sessions was taken by eminent international and national speakers held over the four days and all the session started with welcoming of speaker, panel members and participants by moderator followed with opening remarks by Prof. Dr. A Tamilselvi, Principal, ACON. The first day session of the International webinar series was "Escape Traditional classroom: Applying the escape room gaming ideas to Nursing Clinical Education" by Ms. Shiny Edward excellently discussed the techniques that can be used to gain the attention of students and promote effective learning. Relevant examples were quoted where teachers can understand and apply apart from the traditional classroom. Gaming ideas can be used to interest the students in clinical learning and therefore adds creativity and variety to the learning process. The second day session of the International webinar series was "Virtual learning – theoretical and clinical dimensions of nursing education" by Mrs.G.Nirmala, BSN, MSN, PhD Scholar, faculty

of Nursing, University of Bahrain, Speaker had focus on many important points regarding virtual learning which make the session important for both the student as well as faculty members. The third day session of the Webinar series was "Virtual Nursing Education in India During Covid-19" by Prof( Dr.) Smriti Mani, Principal, OSD Nursing, Nursing Directorate, Govt. of West Bengal. speaker discussed the Characteristics of virtual education. Benefits of Virtual Education in Nursing Education during Covid -19. most common tools used for virtual education in nursing and issues and challenges Virtual Education in Nursing Education during Covid -19. The fourth day session of the Webinar series was "Tele-simulation: An emerging



trends in nursing Education" by Mrs. Muthulakshmi Arumugam, Nursing Faculty, Harmony Healthcare Institute, USA. discussed the concept of tele-simulation, strategies that can be adopted in clinical practice. Further current practices and barriers were also explained thoroughly. Discussion and doubts of the participants were clarified



after the each session. Finally, the webinar was ended with proposed Vote of Thanks by Mr. Surendra Sharma, Associate Professor, Amity College of Nursing. Participation certificate were given to all the participants. Ms. Shiny Edward Professional Development Specialist, Baylor Scott & White Medical Center, Garland, USA. Delivered topic on "escape Traditional classroom: Applying the escape room gaming ideas to Nursing Clinical Education" Ms. Shiny Edward Professional Development Specialist, Baylor Scott & White Medical Center, Garland, USA. Delivered topic on "escape Traditional classroom: Applying the escape room gaming ideas to Nursing Clinical Education" Dr. Padmakali Banerjee, Pro Vice Chancellor & Dean Academics, Amity University Haryana chair the session. Page | Directorate of Outcome (DOO) Mrs. Muthulakshmi Arumugam, Nursing Faculty, Harmony Healthcare Institute, USA. Delivered topic on "Tele-simulation: An emerging trends in nursing Education"



### MOLECULAR MEDICINE AND STEM CELL TECHNOLOGY: PROMISE AND THE PATH FORWARD FOR BUILDING ATMA NIRBHAR (SELF-SUFFICIENT) BHARAT

**Arvind Chhabra**, Professor & Director, Stem Cell Institute, Amity University Haryana

The Amity Stem Cell Institute (ASCI) at the Amity University Haryana, Gurugram, Haryana, was established, in June 2018, with appointment of Professor Arvind Chhabra as the founding Director of the Institute. ASCI aims to produce trained scientists in the field of molecular medicine and stem cell-based regenerative medicine; to establish cutting-edge research programmes for developing molecular medicine and stem cell-based therapeutics; and to contribute towards building an Atmanirbhar Bharat to realise the vision of our Founder President, Dr. Ashok K. Chauhan; our beloved Chancellor, Dr. Aseem K. Chauhan; Hon. Vice Chancellor, Professor PB Sharma; Hon. Dy Vice-Chancellor, Maj. Gen BS Suhag; and Hon. PVC, Professor Padmakali Banerjee; and Prof. Chhabra.

The developmental potential of human Pluripotent Stem Cells (PSC) is evident from the fact that all the individuals develop from one single cell, i.e. fertilized egg, and during the course of our adult life our worn-out cells are continuously replaced by fresh younger cells by tissue-specific adult stem cells. The PSC have the ability to differentiate into any somatic cell lineage of choice, under appropriate differentiation condition. PSC-based regenerative medicine field has witnessed remarkable progress in the last two decades. While isolation of first human embryonic stem cell (hESC) lines, in 1998, made it feasible to study the pluripotency profile as well as differentiation potential of human pluripotent stem cells (hPSC), ethical concerns associated with the use of human embryos for deriving hESC lines limited our ability to develop hESC-based cell replacement therapies (CRT). Derivation of induced pluripotent stem cell (iPSC) lines from adult somatic cells by the use of defined transcription factors, in 2007, made it feasible to generate donor-specific iPSC lines that could be used to generate desired cell lineage of choice, under appropriate differentiation condition, for developing personalised therapies. Professor Chhabra has been engaged in human PSC-based therapeutics research since 2010, and he has developed several technologies that have significant translational implications.

Significant advances have also been recently made in the field of Molecular Medicine, towards sequencing of human genome, characterisation of molecular mechanism of development of different diseases, including Cancer, identification of biomarkers to follow disease progression, and identification of molecular targets to intervene with this process. Given that cancer incidences are on the rise in India also, due to increasing urbanisation, changing food habits and increasing environmental pollution, there is an urgent need to develop effective strategies for early diagnosis



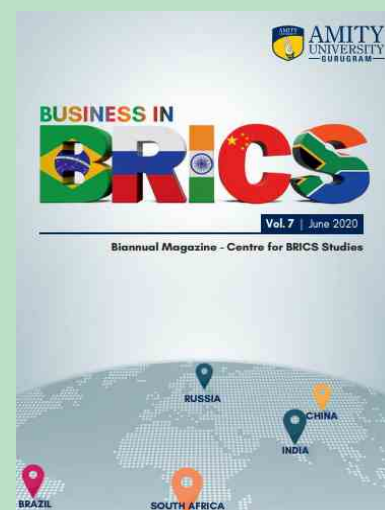
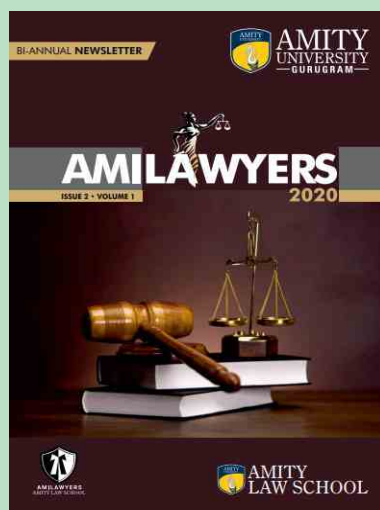
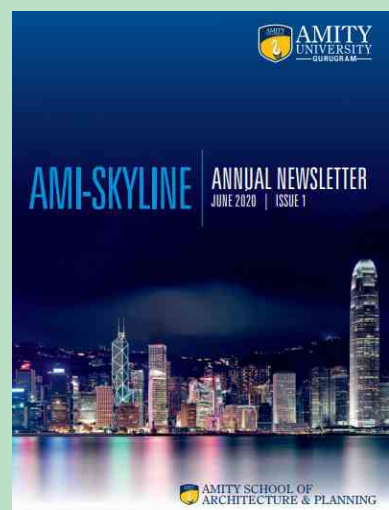
and treatment of different types of Cancers. Among the current Cancer therapeutic strategies include surgery followed by chemo and / or radiation therapy. A significant progress has recently been made towards developing effective cancer immunotherapy approaches in the Western Countries, which do not have the side effects associated with chemo and radiation therapy approaches; however, extremely high cost of these treatments (~200,000-300,000 USD per patient) makes them unaffordable for most Indian Cancer patients. Dr. Chhabra has been working in the field of Cancer Immunotherapy for more than fifteen years. He has developed several innovative approaches, published in leading international scientific journals, that have been well-cited and have earned him several prestigious awards

and accolades at international platforms, including Overseas Fellow, Royal Society of Medicine, UK, London. Dr. Chhabra is working on developing affordable cancer therapy approaches tailored to Indian cancer patients.

Recognising that there is an urgent need to develop trained workforce in the country who can not only meet the need of the innovation driven industry in the fields of Molecular Medicine and Stem Cell Technology, and also to develop affordable therapeutics in India, Amity Stem Cell Institute has taken several initiatives. Our first academic programme started with the successful launch of the Stem Cell Minor Degree programme, an eighteen credit six-semester programme, from the 2018-2019 academic session, offered to AUH students enrolled in Bachelor's Degree programmes across different AUH Institutes. Building on this success, following necessary approval from the Higher Education Department of the Government of Haryana, BSc and MSc degree programmes in Molecular Medicine and Stem Cell Technology (MMSCT) were launched in 2019-2020 academic session. Our academic programme is growing further and we have received approvals for starting short-term certificate course on MMSCT also. Further, PhD in Molecular Medicine and PhD in Stem Cell Technology programmes are also in the offering, in the near future.

Apart from academic engagements, the faculty at the ASCI is also engaged in cutting edge research in the areas of Molecular Medicine, Stem Cell Research and Nanomedicine. Within a short span of two years, the faculty has published several research articles of significant translational implication, in Scopus indexed journals, and have also filed 11 patents, of which one technology, a reusable, affordable, anti-microbial, multi-purpose face mask, has recently received support from the Amity Incubation Center for further development and commercialisation. ASCI remains committed towards producing well-trained scientific work force, commercially viable cutting edge technologies, with secured intellectual property rights (IPR), and developing next generation therapeutics for building a Healthy Atmanirbhar Bharat.

### INSTITUTE NEWSLETTERS



### CLINICAL PSYCHOLOGY

Amity Institute of Clinical Psychology made remarkable achievements in the areas of clinical training, service delivery and research. The Institute got extension of approval for MPhil (Clinical Psychology) from Rehabilitation Council of India. 3 MPhil students presented papers at 46th National Annual Conference of Indian Association of Clinical Psychologists' held at Chandigarh from 21-23, Feb 2020. The faculty members and students also conducted Mental Health Awareness Activities at Citizen Hospital & De-addiction Centre and Earth Saviours Foundation (Gurugram).



### AMITY SKILLS INSTITUTE: PREPARING FUTURE-READY PROFESSIONALS

Amity University Haryana has always given utmost priority to skill development and training. Amity Skills Institute (ASI), Amity University Haryana (AUH), the dedicated department at AUH for ensuring that skill development and training remain in prime focus, has been assiduously keeping students and faculty engaged in the enduring process of skill development and personal as well as professional growth during the times of pandemic. ASI takes qualitative and quantitative insights from academia from across the University along with top-notch leadership and guidance par excellence on talent and skill demand and supply. ASI coalesces the competence, latent aptitude and the potentiality of information and knowledge to deliver progressive solutions to minimising the skills gaps and to upgrade the skill levels at AUH and beyond. A workshop on Netiquette: Understanding the Norms of Online Communication was held on 30th April 2020. The workshop was conducted by Dr. Reena Nigam, Associate Professor and HoD, ASI. The session highlighted the norms of etiquette that one must apply when communicating over the internet. Another series of workshops on Soft Skills as the Road to Success was organised by ASI along with ABS for the non teaching faculty of AUH. It was aimed at helping them in comprehending how to use soft skills to communicate, solve problems, and resolve conflicts. A panel discussion webinar on Art, Culture and Values as the Saviour of Humankind during Covid-19 was also organised by ASI. The webinar, held on 4th May 2020, was graced by high profile panelists such as Prof. (Dr.) Padmakali Banerjee, Dean Academics and Pro Vice Chancellor, AUH; Prof. Sanjay Kumar Jha, Director, Amity School of Liberal Arts, AUH; and Padma Shri Shovana Narayan, Indian Kathak artist among others. The discussion saw art leaders and influencers sharing how they are adapting to their new realities, the role of art, culture and values in promoting positivity and how this crisis might reshape societies. Next, in the light of the current pandemic, an

Interactive Webinar on Pandemic and its implications on Life and the Living: A way forward was organised by ASI along with ABS on 14th May 2020. The speaker, Professor (Dr.) Debasis Bhattacharya, ABS aimed to create an economic understanding of the consequences of the pandemic and what to expect while going forward. The interactive session catered to understanding the economic classes and sectors majorly affected, financial packages introduced by the government and the RBI, and how daily-wage community was impacted among others. In current times, maintaining good health and immunity is the need of the hour, ASI came up with a workshop on the role of yoga in improving health and immunity on 27th May 2020. Conducted by Ms. Nitu Sinha, Head of Amity Center Of Yoga Education, Therapy & Research, the session was all about Yoga and its physical, mental, emotional and spiritual benefits. Ms. Sinha beautifully demonstrated all yoga poses and exercises. An array of guests speakers such as Mr. Vinay Maloth, Manager, Competitive Intelligence of Novatis Hyderabad; Ms. Reena Bhattacharya, Founder Renuto Consulting & Associate Professor, DPSRU, New Delhi; Mr. Brij S. Sarda, Founder, Medigrace; Mr. Hari P. Gupta, Sr. VP Sales & Marketing, Bangalore Pharmaceutical & Research Labs; and Dr. Nupur Goel, Faculty DPSRU, Quality Management, Clinical Research Regulation & Drug Regulatory Affairs were invited to impart technical skills required for students to venture into pharmaceutical sales and marketing through a workshop on pharmaceutical sales, marketing, business development and quality assurance on 4th June 2020. Another interesting area explored by ASI during the times of the pandemic was gastronomy. ASI along with ASH virtually curated recipes and skills for the large number of individuals working from home who have recently donned the chef's hat and started culinary experimentation. In the Series, mocktails and enchanting use of unconventional ingredients were covered by Chef (Dr.) Kunal Seth, Contemporary Regional Cuisine, and Desserts by Chef S.K. Malakar.

## AMITY GURUGRAM PLACEMENTS: THE LEADERS OF FUTURE START HERE 18

### TOP RECRUITERS



**B.Tech CSE, 2015-2019**  
**Nickelfox Tech**

It was a great experience studying at Amity. Amity provided me various opportunities such as Lead of Developer Student Club (Initiated by Google), interact with various technical communities, gave me the opportunity to speak in various conferences at National and International levels. All the faculty members, mentors and everyone in Amity have been a great help and strong support. Amity gives a lot of attention to practical sessions, regular workshops, technical talks, entrepreneurship (for this Amity has an E-cell). Amity provided many cultural activities such as Sangathan, Ek Aawaz, Saakar where someone can show their talent and creativity. In my four years of engineering, I learned a lot and had a lot of fun.



**Harshita Gupta**  
**B.A. LLB (H), 2015-2020**

My 5 years in Amity Gurugram have been exceptional, significant and a memory which I will cherish my whole life. Faculty of Amity Law School have been my support system. CRC not only understood my perspective and my area of interest but also helped in getting me placed in a company which is helping me to evolve myself. I will always be grateful to Amity Gurugram for providing me a platform for better future.



**Y Hemanth Reddy**  
**BTech Biomedical Engineering, 2016-2020**  
**Growman Research Group**

I came to Amity University Gurugram with the vision of getting the best learning experience and placement opportunity after my BTech in Biomedical Engineering. Amity Gurugram has provided me with immense knowledge. Today, I am placed with Growman Research group in my 7th semester as a Market Research Specialist.

### SUCCESS STORIES



**Ms. Divyanjali Verma**  
**B.Tech ECE, 2014-2018**  
**NTT Data**

It gives me immense pleasure to say with pride that I have completed my graduation from Amity University Haryana. The relationship between faculties and students here is very cordial, which gave me an opportunity to excel. I liked the friendly atmosphere and the fact that the Lecturers are close to the students. The University is full of limitless opportunities and facilities. The four years spent here were splendid and has helped me to grow better both professionally and personally.



**Mr. Shivam Rohilla**  
**B.Tech - Computer Science and Engineering, 2013-2017**  
**Capgemini**

It was a great experience studying at Amity. The dedication, support, and motivation of each of the staff are remarkable and enables students like me to achieve their dreams! CRC department also continuously provides assistance regarding the placement. I got placed because of their efforts. I've also made some good friends and memories in my time here. Thank you, Amity University!



**Mr. Rajat Verma**  
**B.Tech - ME, 2013-2017**  
**Suzuki Motors India Limited**

Amity University provides students with galaxy of opportunities. I am one of the fortunate ones to get a reputed job in THE HI-TECH GEARS LTD during campus placements. Our CRC department is doing result-oriented work and giving us a world level exposure. Life in Amity is a breathtaking experience. Currently working with Suzuki Motors India Limited. (Maruti).



**Ms. Priya Rajput**  
**MBA - Banking & Finance, 2014-2016**

Amity is not just a university; it is the epitome of learning where students fulfil their dreams, overcome fears and weaknesses to step into the world as smart and confident professionals. It is just not a place to earn the qualification or a degree but to be groomed holistically. Amity nurtures talent. Being away from home, Amity was always a second home to me. I feel proud to be a part of such esteemed Amity family. Thank you, Amity, teachers and friends, for making this journey so beautiful.



**Deepshikha Kumari Jha**  
**M.Sc Clinical Research, 2018-2020**  
**Fortis hospital**

Amity has a brand value and very good reputation among private universities. It has variety of courses which help students to choose best career options. It has world class infrastructure and well qualified professors. It gives various opportunities for studying abroad and also holds exceptional placements record.



**Ms. Khyati**  
**B Tech Bioinformatics, 2016-2020**  
**Zyla, Gurugram**

These 4 years have given me the best moments, memories and lessons of my life which will be cherished forever. Today I am not leaving this college with only memories and lessons but also friends who are family and teachers who are guardians.



**Umang Saxena**  
**B- Tech ME, (2015-19)**

Apart from the regular academics, the emphasis that Amity University puts on Guest Lectures, training programmes and seminars drives in essential qualities in us. These skills are highly needed by us to excel in our career. This all round development is guaranteed at Amity. The University, through its elaborate course structure prepares us for the challenges we would face in our life. I am grateful to CRC for providing such platforms to showcase and refine my corporate skills. The job opportunities they provided are appreciable.



**Vamshi Kartik**  
**B- Tech ME, (2015-19).**

Amity University is a place where you can find an amalgamation of learning, fun, culture, knowledge, literature and many such life changing activities. The course, faculty and management have effectively funneled the raw energy in us and made us realise that the sky is the limit. They have not just fulfilled their mandate, but at times have gone beyond their charter. The numerous industrial visits and guest lectures conducted in last few years gave us an insight as to what the world beyond the campus really is. I have been associated with CRC for over 1 year now, in the capacity of a Placement Coordinator. I have realised the huge responsibility that's there on their shoulders, as they act as an interface between students and the industry. They not only assessed and refined our professional competencies but have also connected to our personal aspirations, to place us on the right pedestal. Amity transforms students into leaders, enabling them to turn ambitions into achievements, and CRC converts their dreams into a reality. Glad to be associated with this launchpad!



**Vandit Aswal**  
**B- Tech ME, (2015-19)**

Studying at Amity has turned out to be a great experience for me. The support that we have received from our faculty as well as CRC has helped me a lot in my overall development. It's a dream come true, being a mechanical engineer and getting to work with such a great core company at the very beginning of my career.



**Himanshu Nishikant-**  
**MBA-General, 2018-2020**  
**Mazars Advisory Ltd**

Amity Business School proved to be a pool of opportunities for me. It not only provided me with various platforms to showcase my abilities and skills but also helped me to learn all the soft skills which are required to be a successful candidate to enter in the corporate world. I got training on interview skills, communication skills, life skills and effective time management and many more. I wholeheartedly thank CRC department and all my faculties who have supported me in my journey here constantly.



**Ms. Swarnali Mahoptra**  
**B.Sc - Applied Psychology, 2017-2020**  
**Innovaccer, Gurugram**

Armed with an amazing academic programme led by incredible faculty; with a minor to ace, two workshops, a foreign language along with internships and mastering research methodologies: The Amity University Haryana fraternity has groomed me to carve a niche in all my endeavours. This Institution increased my work efficiency manifold. I have Amity to thank for the enriching experience with comfortable stay that it has provided me.

## ENTRY OF FOREIGN UNIVERSITIES IN INDIA- WILL THE NUMBER 'HUNDRED' DO THE MAGIC?

It is suggested that the 'top hundred' base may be expanded to the 'top three hundred' for the following reasons. The long awaited decision on entry of foreign Universities is finally unveiled in the National Education Policy 2020. It is a moment of exuberance and delight for all the higher education fraternity especially the proponents of international higher education in the country. According to the new policy, select Universities, those



are from among the 'top hundred' universities in the world will be facilitated to operate in India. There are over seven and a half lakhs (Ministry of External Affairs, 2019) Indian students studying overseas. Students aspiring to go abroad will now have world class education at their doorsteps in India. The number 'hundred' needs to be reviewed closely. Expanding this number to a few more may do better justice in order to make this dream more realistic and effective in true sense. Time has witnessed that despite having the legacy of elite existence of over hundreds of years, very few Universities have chosen to have their campuses abroad. The entry standards for students at these Universities are very high and often their leaders take pride in the low acceptance rates as students all over the world dream of securing a seat at their most prestigious Universities. Having mentioned this, there are a several

encouraging examples where Universities ranked amongst the top hundred do have offshore campuses- Cornell University, Carnegie Mellon University and Northwestern University have their offshore campuses at Qatar. Duke University has set up Duke Kunshan University (DKU) at Kunshan in China in partnership with Wuhan University, China. Monash University and University of Nottingham also have their offshore campuses at Malaysia. The "top hundred" clause will certainly open opportunities for entry of foreign Universities from several countries undoubtedly.

**Prof. (Dr.) Gunjan M Sanjeev, Vice President (Amity Education Group), Director - International Affairs & Professor of Finance at Amity University, Haryana**

Read full article here: <https://bit.ly/3mRINbQ>

### THE NATIONAL EDUCATIONAL POLICY IS THE MUCH AWAITED RIGHTFUL INTERVENTION AT THE MOST PROPITIOUS TIME TO MAKE OUR EDUCATION SYSTEM GLOBALLY COMPETITIVE. :- DR. PADMAKALI BANERJEE , HIGHLIGHTS OF THE DELIBERATION



In today's era, if educationists are to be believed, this national education policy that provides education, affordable education, skill development to all, has all the characteristics? The new NEP is the culmination of 34 years of debates and vision of millions of educationists who envisioned

reforms in our present education system to make it comparable to the global standards. NEP is refreshingly progressive and incredibly futuristic. Some transformational changes like moving children of less than 5 years to "Preparatory Class" or "Balavatika" in the care of an ECCE-qualified teacher, free boarding facilities for children from socio-economically disadvantaged backgrounds, providing incentives to the meritorious students belonging to SC, ST, OBC, and economically weaker sections etc. show our nation's commitment towards making education affordable and accessible to all. National Scholarship Portal will track the progress of students receiving scholarships thereby ensuring the steady progress for the extraordinary students. It makes me happy to share that technology-based adult learning

through apps, online courses/modules, satellite-based TV channels, online books, and ICT-equipped libraries and Adult Education Centers etc have been inducted to educate adults who were deprived of quality education in their younger days. To make education inclusive, engineering institutions, such as IITs, will now include holistic and multidisciplinary education with the inclusion of arts and humanities. Other than that, Higher education Institutes and private stakeholders will be encouraged to offer larger numbers of free ships and scholarships to their students.

<https://bit.ly/2RPDD1M>

### ONLINE TRAINING SESSION ON DOWNSTREAM BIOPROCESSING AND BIOANALYTIC TECHNIQUES

Amity Institute of Biotechnology Organised Online Training Session on Downstream Bioprocessing and Bioanalytic Techniques on 23rd and 24th June 2020 by Dr. Sivapathasekaran and Dr. Bhargav Prasad Kodaganti, Lead Trainer, GE Health Cares Life Sciences.

In his session, Dr. Sivapathasekaran spoke on downstream bioprocessing, fast track training & education, which provides an opportunity to students to understand the concepts of protein purification and process development via lectures: Introduction to chromatography and Ion Exchange chromatography. Introduction to chromatography, explained the basic chemistry of resin and different types of chromatography techniques integrated with the respective resin availability. Ion Exchange chromatography explained the basics of techniques and in-depth requirement for experimental planning's.



Webinar in bioanalytics provided a learning experience for students, to understand the concepts of bioanalytics techniques (SPR principle, assay development) and its various applications.

Lecture 1: Kinetic analysis using Biacore systems, explained the theory behind the SPR working principle, different approaches used in kinetics setup and its advantages. Lecture 2: Biacore assay preparations and Applications, explained the assay method development requirements and

various applications of Biacore SPR analytical technique covering the industrial and research aspects. This session was delivered by Dr. Bhargav Prasad Kodaganti. After the lecture, the queries from the participants were answered by the Guest Speaker and the session ended with a vote of thanks proposed by Prof. Manju Anand. Webinar was aimed at reducing industry academia gap and exposing students to the latest technology. The main purpose of the webinars was to impart knowledge and strengthen their concepts about Protein purification & characterisation and prepare them for hands on training in the near future. Total 55 Students and 10 faculties attended the training.

### NATIONAL SCIENCE DAY 2020

With the idea to bring 'Science to All', Amity University Gurugram celebrated 'National Science Day' to commemorate C V Raman's confirmation of the discovery of the 'Raman Effect' on 28th February in 1928 at its campus. The programme was organised by the Amity School of Applied Science which includes School Quiz (in which schools from Delhi NCR participated), Club Activities, Demonstrations, Guest Lecture by Dr. Ashok K Sharma on 'Managing your Health with Polymers and Educational movies etc.



Prof. A K Yadav, Director, ASAS while welcoming the students enlighten them about the importance of Science Day and why it is celebrated in India.

Prof. P B Sharma, Vice-Chancellor, Amity University Gurugram while addressing the students said, "Science is for one and all and should be used for the nation-building and for the wellbeing of the people. Science alone can solve the problem of hunger, poverty, unemployment and disease. But

then those who pursue science education and engage in scientific research must necessarily cultivate and nurture the 'spiritual strength of science' that inspires us to use science for human welfare".

A video of Nobel Laureate Madam Curie of 1943 was also shown where she said, "I for one belong to those who believe that science has a great beauty and with its great spiritual strength will in time cleanse this world of its evils its ignorance, poverty disease."

Prof. Padmakali Banerjee, Pro Vice Chancellor, Amity University Gurugram in her address said, "Learning is very important and whatever you do you should have a scientific thought process."

### NANOCOMPOSITE MATERIALS FOR WASTE WATER REMEDIATION AND ENVIRONMENTAL SUSTAINABILITY

The Mechanical Engineering Department of Amity School of Engineering and Technology organised a webinar on Nanocomposite Materials for Waste Water Remediation and Environmental Sustainability by Prof. Ajay Kumar Mishra, Professor in Nanotechnology and Water Sustainability Unit,



College of Science, Engineering and Technology, University of South Africa, Johannesburg, South Africa on 1st May 2020. There were almost 75 participants including the faculties and students. The Director ASET, Dr. S.N. Sridhara, convened the webinar, while Dr. Sanjeev



Sharma and Ms. Rashi Koul were the co-conveners.

Prof. Mishra gave insights about the rapid growth of industrialisation, urbanisation, population growth, and climate change that have played a role in pollution of water resources. He emphasised that Nanocomposites are intelligent materials which can be used to eliminate bacteria, viruses, and inorganic and organic pollutants from wastewater due to precise binding action. Water purification methods are the focus and attention of many scientist and governmental agencies. The session ended with an interactive session between the guest, faculties and students.

### WEBINAR ON BASICS IN TOURISM AND HOSPITALITY RESEARCH BY DR. RAHUL PRATAP SINGH KAURAV – EXPERT IN TOURISM & HOSPITALITY RESEARCH, PIM, GWALIOR

Amity School of Hospitality, Amity University Haryana, Gurugram conducted online lecture on Basics in Tourism and Hospitality Research on 8th May 2020 by Dr. Rahul Pratap Singh Kaurav – Expert in Tourism & Hospitality Research, PIM, Gwalior. The main aim of the event was to provide education with respect to key insights, core concepts and skills that are needed to conduct and publish high quality research in general. The students were able to understand the set



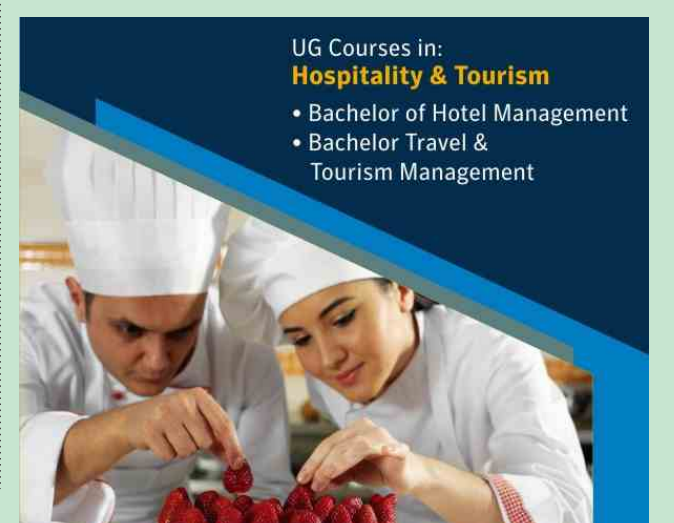
of skills required to undertake research very effectively in the disciplines of tourism and hospitality. This webinar was designed to offer the practical guidelines and direct the students through basic stages of research from identifying a research problem to the submission of a dissertation, report writing and research article. Post the webinar the students were expected to develop conceptual clarity and practical knowledge to undertake quality research and writing good research reports, field-reports and project proposals etc. Dr. Rahul Pratap Singh Kaurav – Expert in Tourism & Hospitality Research, PIM, Gwalior mentioned in his speech about several main

research areas in hospitality & tourism industry such as Hospitality and Hotel Management, Tourism Management, Tourism Economics and Financial Management, Convention and Events Management and Hotel and Tourism Technology Management. Hospitality and Hotel Management refers to professional management techniques used in the hospitality sector and it consists of research areas such as Hospitality and Customer Satisfaction, Tourism and Hospitality Marketing, Hospitality Management, Marketing and Service Quality Management, Food Service Consumer Choice and Services Strategies, Strategic Management in the Hospitality Industry, Hospitality Marketing and Service Experience and Human Resource Management.

Tourism Management concerns with the planning and management of travel and tourism and consists of research areas such as Cultural Tourism, Tourism Education, Tourism Labour and Employment, Tourism Planning and Development, Transportation and Travel and Tourist Behaviour and Psychology.

He spoke in detail about Tourism Economics and Financial Management comprising of planning, organising, directing and controlling finance for travel and tourism. It includes research areas such as Tourism Demand Forecasting, Tourism Impact Assessment, Competition Issues in Tourism and Financial Management for the Hotel and Tourism Industry.

In his concluding slide, he spoke on Convention and Events Management consisting of research areas such as Convention Industry Management, Service Strategies and Education, Convention Destinations, Convention Tourism and Convention and Exhibition Management. Hotel and Tourism Technology Management includes Hotel and Tourism Technology Management, Information Technology and Innovation in Hospitality and Tourism, and Information Technology for Tourism. 35 students and more than 10 faculties participated in the webinar.



UG Courses in:  
**Hospitality & Tourism**

- Bachelor of Hotel Management
- Bachelor Travel & Tourism Management

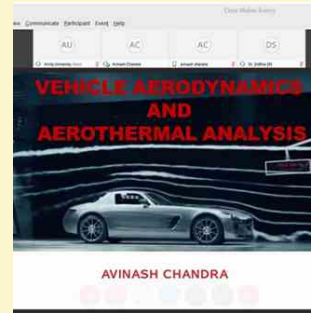
## GUEST LECTURE ON EXOSOMES AND EXOSOME-LIKE SYNTHETIC VESICLES IN CANCER



Amity Institute of Biotechnology organised a Guest Lecture on 'Exosomes and exosome-like synthetic vesicles in cancer' at Amity University Gurugram. The lecture was delivered by Dr. Priyanka Sharma (Post-doctoral Research Associate, Department of Pathology, University of Pittsburgh) and was attended by faculty members & students from AIB.

Dr. Sharma delivered the talk on how exosomes can be used to build a diagnostic tool for cancer. She also showed how exosomes can be differentiated between the tumour origin and normal cell origin.

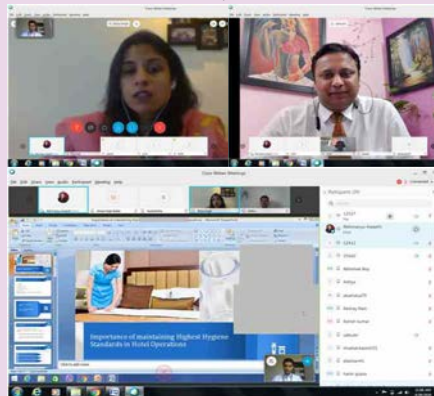
## WEBINAR ON VEHICLE AERODYNAMICS – CASE STUDIES



The department of Aerospace Engineering, Amity School of Engineering & Technology (ASET) organised a webinar on Vehicle Aerodynamics – Case Studies on May 19th, 2020. The distinguished resource person was Mr. Avinash Chandra, Aerothermal Engineer, FIAT Chrysler Automobiles Pvt. Ltd., Chennai, India. The Director ASET, Dr. S.N. Sridhara, convened the webinar, while Dr. Prakhar Jindal was the co-convenor. Mr. Chandra is an industry expert and has experience of more than a decade working with different renowned groups. In his webinar he gave insights to the different research and design phases involved in the industry. He highlighted the basics involved while designing the vehicles in terms of aerodynamic performances. The webinar witnessed more than 75 participants including students and faculty members from AUH and other universities of India.

## WEBINAR ON IMPORTANCE OF MAINTAINING HIGHEST STANDARD OF HYGIENE IN HOTEL OPERATIONS

Amity School of Hospitality, Amity University Haryana, Gurugram organised online lecture on Importance of Maintaining Highest Standard of Hygiene in Hotel Operations by Mr. Subir Verma, Corporate Training Manager, Ananta Group of Hotels and Ms. Richa Singh – Head of Learning, Development & Diversity, The Lalit Suri Hospitality Group on 30th April 2020. Total 30+ students participated in the webinar. The main objective of the event was to acquaint students with the importance of maintaining standards of hygiene in the hotel industry. This webinar attracted student's



attention towards the important requirements and attributes which a hotel employee / staff needs to be equipped with in order to maintain highest hygiene standards in hotel operations and eventually, this ensures guest satisfaction and repeat business thereby creating revenue for hotels. Mr. Verma and Ms. Singh talked about the food safety standards and strict hygiene those regulations have been established to ensure that all food prepared and sold in the hospitality and catering sector is safe for consumption. Health and safety is vitally important; and hotels,

restaurants, cafes and catering outlets must enforce strict guidelines in the workplace and complete regular health and safety and hygiene checks they surmised. He also spoke on Safety Due Diligence Diaries those are designed to enable businesses to efficiently record all compliance activities, as well as to easily introduce new health, safety and hygiene procedures. He also mentioned about Food Standards Agency (FSA) and about cross-contamination which is one of the most common causes of food poisoning. It happens when harmful bacteria are spread onto food from other foods, surfaces, hands or equipments. Raw meat, poultry, and eggs are more likely to contain harmful bacteria than other foods he elucidated. Overall it was a very informative session for students.

## INTERNATIONAL DAY AGAINST DRUG ABUSE AND ILLICIT TRAFFICKING

Online webinar to celebrate International Day against Drug Abuse and Illicit Trafficking was organised by Amity College of Nursing (ACoN), AUH, in collaboration with PNNFI (Pediatric and Neonatal Nurses Forum India) on 27 June, 4-5 pm. The theme was 'Better Knowledge for Better Care'.

Acknowledging the fact that drug abuse has now become one of the global problems which leads to devastating consequences on individuals, families and nations this webinar was conducted to create awareness among nursing



fraternity, other healthcare professionals and general public about the magnitude of the problems. After the welcome address by Prof. Dr. Tamil Selvi, Hol, ACoN, the opening remarks were given by Prof. Dr. Pity Koul, Director, School of Health Sciences, IGNOU, New Delhi. An enlightening expert talk about the prevalence of drug abuse among adolescents and its prevention was given by Prof. Dr. Padmakali Banerjee, Chair-Pro Vice

discussed about social determinants of substance abuse. Dr. Sumity Arora Tarafdar from Lok Nayak hospital explained about incidence, prevalence, types and impact of substance abuse and Dr. Deepika C. Khakha from AIIMS, New Delhi deliberated on the role of healthcare workers. Approximately 345 students and faculty members participated from around 10 states. There were great discussions with the participants and they thoroughly appreciated the event. Vote of thanks was proposed by Prof. Dr. Smriti Arora, ACoN wherein she emphasised that as parents, teachers and healthcare professionals it is our responsibility to keep them safe and assist them to make correct choices and act responsibly. The event was also hosted on Youtube.

## A SEMINAR ON "TECHNOLOGY EDUCATION" CONDUCTED AS A JOINT INITIATIVE WITH THE EMBASSY OF NEW ZEALAND



Continuing linkages with foreign embassies, Office of International Affairs hosted Dr. Wendy Fox, Acting Head of School, Faculty of Education, University of Waikato, New Zealand to conduct a seminar as a joint initiative with Embassy of New Zealand. Dr. Wendy was welcomed and felicitated by Vice-President, RBEF & Director-International Affairs, Prof. (Dr.) Gunjan M Sanjeev and Director-ASET, Prof. (Dr.) SN Sridhara with an Amity memento as a token of gratitude.

Dr. Wendy Fox delivered a special talk on 'Technology Education' for ASET students and faculty members. Dr. Fox presented various examples of ancient and modern Indian technology showcasing

how technological education is important for solving various day to day problems. She also discussed about the role of technology education in design enhancement. The interactive session mesmerised the audience and sparked a thought in them to make their life better and easier by application of technology education.

## AMITY MAURITIUS STUDENTS VISITED AUH ON STUDY ABROAD PROGRAMME IN INDIA



Office of International Affairs successfully conducted Study Abroad Programme in India (SAP India) for Amity Mauritius students. SAP India is a 2 week programme especially designed for students studying at foreign Amity

Campuses to give them an opportunity to explore the social cultural life and to learn from the best Indian practices to nurture them as future global leaders. The inward mobility of foreign students at campus also brings diversity. Both faculty and students experience a new dimension of internationalisation in this learning environment. Hon'ble VC Prof. (Dr.) PB Sharma had a detailed session where he mentored them and gave them some very useful life lessons. Vice President-RBEF and Director-International Affairs, Prof. (Dr.) Gunjan M. Sanjeev welcomed the students and delivered a session on 'Case-study of an Indian NGO on transformation of lives'. Students also interacted with the leadership and senior Hols.



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## VISIT OF DELEGATION FROM THE OPEN UNIVERSITY, UK

Office of International Affairs, AUH hosted the four-member delegation from The Open University, UK led by Dr. John Domingue, Director of The Knowledge Media Institute (KMI), Open University (OU), UK. The delegation comprised of Dr. Martin Hiosta, Senior Project Officer; Dr. Allan Third, Research Fellow; and Dr. Enrico Daga, Research Fellow. They were also accompanied by Dr. Goodwill Khokhar, Assistant Director at the office of the President-ASTIF. Hon'ble Vice Chancellor Prof. (Dr.) P.B. Sharma, along with Vice-President RBEF and Director-International Affairs, Prof. (Dr.) Gunjan M Sanjeev, Director-ASET welcomed the delegation upon their

arrival. Dean - Research and Director AIB, Prof. (Dr.) Rajendra Prasad; Director ASET, Prof. (Dr.) Sridhara, Director Admissions; Deputy Director ABS, Prof. (Dr.) Vikas Madhukar; Director ASCI, Prof. (Dr.) Arvind Chhabra and other senior officials also welcomed the delegation with floral bouquets and Amity mementos as token of gratitude. Dr. John Domingue delivered a presentation on The Open University and informed the audience about various initiatives undertaken by KMI in the field of Data Science. The next session was conducted on interaction of faculty members, research scholars and students from ASET, AIB and AISH. There were discussions on various

areas of collaboration in the fields of data science and Artificial Intelligence. Prof. (Dr.) Rajendra Prasad, Dean-Faculty of Science and Engineering delivered a presentation on the research endeavours of Amity University Haryana and informed the guests about various research clusters at AUH. The session was chaired by Prof. (Dr.) SN Sridhara. The concluding session discussed further steps to be undertaken for taking this collaboration forward through Student Exchange, Internship and Joint Research Projects to solve various society related issues by the applications of Data Science, Machine Learning and Artificial Intelligence.



## SEMINAR ON WOMEN EMPOWERMENT HELD IN COLLABORATION WITH FLORIDA INTERNATIONAL UNIVERSITY, USA



Yet another milestone towards comprehensive internationalisation of higher education at AUH was achieved by organising an intellectually stimulating student centric seminar with interdisciplinary and multicultural perspective on February 25th, 2020 on the theme 'Women Empowerment through Social Enterprise – An Interdisciplinary and Multi-Cultural Perspective.' The FIU delegation comprised several international students from different disciplines led by an accomplished faculty in this area,

Prof. David Wernick, PhD, from the department of Management & International Business, FIU.

Prof. (Dr.) Gunjan M Sanjeev, chairing the seminar, expressed great delight on such an event being organised with an American University, a partner of AUH, on such contemporary and relevant issues that impact millions of women across the world. She also presented a talk on 'Women Empowerment

through Micro-Finance' highlighting microfinance as a powerful tool for women especially in rural areas. Prof. (Dr.) Vikas Madhukar, Director-Admissions & Deputy Director-Amity Business School, delivered a talk on 'Women Empowerment: Opportunities for Entrepreneurship' & elaborated on the theoretical underpinnings of the management on the women in today's globalised world. Prof. (Dr.) Ila Gupta, Director-Amity School of Architecture & Planning, expressed her views on 'Towards Inclusivity:

Overcoming Gender Inequality in India' and stated that women empowerment is highly essential for sustainable development for a country with universal perspective. Ms. Mitali Deshpande, Assistant Professor, ASFA presented a talk on 'Madhubani Paintings – An Art Empowered by the Women Artists of Mithila and the Art which Empowered the Mithila Artists' and elucidated how a traditional art practice empowers the womenfolk of the Kayastha community. Dr. Arvind Birdie, Director – International affairs gave the vote of thanks. Prof. Dr. David Wernick also shared American perspective on the theme and highlighted that various complex issues pertaining to women empowerment can be addressed with professional training and education. FIU and AUH have now collaborated and have agreed to work together on women empowerment for a group of women in Bandhwari village in Haryana. The FIU students and Amity students shall join hands and work together to improve lives of these women by empowering them through various means.

## TOP FOREIGN UNIVERSITIES INTERACT WITH AUH STUDENTS ON HIGHER EDUCATION OPPORTUNITIES



As an endeavour to support Amityans for foreign higher education opportunities across the globe, Office of International Affairs (OIA) has opened a new platform for AUH student and faculty members to interact with the top officials of foreign universities across the globe to make them aware about the available higher education opportunities. In this regard, interactions with prestigious universities like Binghamton State University New York, USA; Central Michigan University, USA and Hong Kong University of Science and Technology (HKUST) were organised recently.

## DR. RICHARD TEARE FROM GLOBAL UNIVERSITY FOR LIFELONG LEARNING, UK DELIVERED A SPECIAL TALK ON "HOW CAN UNIVERSITIES FACILITATE SELF-DIRECTED LIFELONG LEARNING FOR EVERYONE TOWARDS A 21ST CENTURY PARADIGM FOR WIDER INCLUSION"



Hon'ble Vice Chancellor Prof. (Dr.) P.B. Sharma along with Vice President – RBEF and Director International Affairs Office, Prof. (Dr.) Gunjan M Sanjeev welcomed the esteemed guest with a floral welcome and presented Amity memento to Dr. Richard. Other senior dignitaries present were Dy. Vice Chancellor, Maj. Gen BS Suhag; Dean Student Welfare, Maj. Gen. G.S. Bal.; Dean and Director ALS, Major Gen PK Sharma; Director ASET, Prof. (Dr.) SN Sridhara and Director ASCO, Prof. (Dr.) Manish Verma. Hon'ble Vice Chancellor Prof. (Dr.) P.B. Sharma welcomed the guest and briefed the audience about the need to create a world working for common cause. He emphasised the need to build up an international

community following the advancement of engineering and integration of technology. He also suggested how in some sectors such as Agriculture, Biomedical Engineering and other allied fields can be enhanced by solutions resulting out of joint projects or proposals for both universities, GULL and AUH. Dr. Richard Teare delivered a special talk on – "How can universities facilitate self-directed lifelong learning for everyone towards a 21st century paradigm for wider inclusion". Dr. Richard discussed that how important is the component of 'self-help' in the present society. He also elaborated that how GULL's non-profit network movement that aims to facilitate self-help and its role in a research project that aims to develop an inclusive framework for self-directed lifelong learning led by a group of South African public universities. He proudly mentioned that GULL initiative on lifelong learning is being executed in over 60 countries for the benefit of marginalised communities. AUH and GULL have established a collaboration between them and have agreed to work in the area of Lifelong learning.

## GUEST LECTURE ON TRANSLATIONAL RESEARCH IN MEDICAL INFORMATICS



Amity Institute of Biotechnology organised a Guest Lecture on 'Translational Research in Medical Informatics' at Amity University Gurugram. The lecture was delivered by Dr. Deepak Sharma (Asst. Professor, IIT Roorkee) and was attended by faculty members & students from AIB. During the lecture, Dr. Sharma discussed about Data Science and its implications in development of bio-apps for Google Apps to serve the people in remote areas of India. His research group has recently developed a mobile app 'Dhadkan' available on Google Play that enables remote monitoring and medical help to patients whose parameters indicate imminent heart failure.

## WEBINAR ON SKILLS FOR CAREER SUCCESS: DURING AND POST COVID-19



Amity Institute of Biotechnology organised a Guest Lecture on 'Translational Research in Medical Informatics' at Amity University Gurugram. The lecture was delivered by Dr. Deepak Sharma (Asst. Professor, IIT Roorkee) and was attended by faculty members & students from AIB. During the lecture, Dr Sharma discussed about Data Science and its implications in development of bio-apps for Google Apps to serve the people in remote areas of India. His research group has recently developed a mobile app "Dhadkan" available on Google Play that enables remote monitoring and medical help to patients whose parameters indicate imminent heart failure.

## AMITY ACADEMIC LEADERSHIP FORUM FOR K-12 SCHOOL, INDIA.

Amity Academic Leadership Forum has been created as a Knowledge network system with K-12 Leaders to develop a robust think tank dedicated to the Indian education system. The Forum brings thought-provoking issues of the Indian education system to its members in panel discussions / seminars and compiles their suggestions to publish it in the form of a report for the common use of education fraternity. The Forum provides numerous platforms such as conference / seminar / FDP / Consulting to schools across India to learn and grow together.



In the recent past, Forum organised various webinars to brainstorm on various topics mentioned below.

TOPIC	PANEL SPEAKERS
Innovative pedagogy and robust curriculum as a road to success in K 12 schools'	Ms. Madhu Sharma, Vice Principal, Shanti Gyan International School, New Delhi; Mr. Anshul Pathania, MD, Pathania Public School, Rohtak; Ms. Nirmal Yadav, Principal, CCA School, Gurugram; Dr. Nandita Kathuria, Vice Principal, Euro International Sector 10, Gurugram; Dr. Amrita Vohra, Director & Executive Principal, Gems International School, Gurugram; Ms. Arti Chopra, Principal, Amity International School, Sector-46, Gurugram; Dr. Rishi Khurana, Founder / Principal, Shanti Gyan International School, New Delhi; Dr. Sarita Singh, Principal, RPS Mahendergarh; Ms. Jyoti Dahiya, Principal, DAV NIT, Faridabad; Dr. Anita Sharma, Principal, DWPS Bhiwani; Ms. Sonal Chhabra, Principal, Jain Public School Rewari; Dr. Dheeru Thakral, Vice Principal, CCA School, Gurugram; Dr. Anshu Arora, Principal, Amity International School Sector- 43, Gurugram
Bridging the gap between School and University	Ms. Anuradha Handa, Principal, G D Goenka Public School, Gurugram; Mr. Anirudh Sachdeva, Director, Holy Child Public School, Rewari; Dr. Kiran Dalal, Principal, Bright Scholars Senior Secondary School, Sonipat; Ms. Meeta Sharma, Principal, Mussoorie International School, Mussoorie; Shalini Nambiar, Founder, S N Educational Consultants; Mr. Akhilesh Chaturvedi, Principal, Delhi Public School, Maruti Kunj, Gurugram; Ms. Charu Maini, Principal, DAV Public School, Sector 49, Gurugram; Dr. Shelly Bhutani, Advisor, Sunrise International School, Sonipat; Ms. Raman Preet Kaur, Principal, RPS Dharuhera; Mrs. Meenu Dubey, Principal, EURO International School, Dharuhera
Mental health: Are we paying enough attention?	Mr. Indranath Sinha, Principal, Raunaq Public School, Sonipat; Mr. Ashish Mittal, Head Master, Indirapuram Public School, Ghaziabad; Dr. Vasudha Neelmani, Principal, Rockwoods International School, Udaipur; Ms. Mamta Bhola, Principal, Shiksha Bharti Vidyalaya, Rohtak; Divya Bhatia, Principal, Amity Saket; Deepika Malik, Principal, Kirorimal Public School Sonipat; Ms. Renu Singh, Euro International School Gurugram Sec -84; Ashu Arora, Principal, Central Academy, Alwar
Innovative educators leading the way to superior classroom experience and students' engagement in K-12 schools	Mrs. Irina Mukherjee, Principal, Summer Field School, Gurugram; Dr. Geetanjali Grover, Principal, Jankidas Kapur Public School, Sonipat; Ms. Nita Arora, Principal, Sri Venkateshwara International School, New Delhi; Mrs. Pankaj Jamwal, Springdale School, Jammu; Ms. Ameeta Mohan, Principal, Amity International School, Pushp Vihar, Delhi; Dr. CV Singh, Principal, Rawal International School, Faridabad; Dhirendra Singh, Principal, Sehwaq International School, Jhajjar; Ms. Sunita Arora, Principal, DPS Howrah, Kolkata

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The Forum will provide various platforms such as conference/ seminar/ FDP/Consulting to schools across India to learn and grow together.

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Amity University Gurugram conducted more than 160 counselling sessions in schools across India on emerging career opportunities, skills required for 2030, artificial intelligence, robotics, psychology, law, earth sciences, medical, languages, journalism etc.



**WEBINAR ON**  
BIOLOGICAL SCIENCE SKILLS THAT WILL BE IN DEMAND POST COVID-19 PANDEMIC

30th MAY, 2020 | 12:00 PM - 1:00 PM

By: **Dr. Munindra Ruwali**  
Assistant Professor, Amity Institute of Biotechnology

**REGISTER NOW!**

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**WEBINAR ON**  
INSPIRATIONS FOR CREATIVE DESIGNS

29th APRIL, 2020 | 12:00 PM - 1:00 PM

By: **Dr. Sunil Sood**  
HOD - Amity School of Fashion Design & Technology

**REGISTER NOW!**

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**WEBINAR ON**  
CAREER OPPORTUNITIES IN ARCHITECTURE AND PLANNING

Date: 23rd April 2020  
Time: 12:00 NOON TO 1:00 PM

By: **Dr. Ila Gupta**  
Director, Amity School of Architecture & Planning

**REGISTER NOW!**

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**WEBINAR ON**  
HOSPITALITY & TOURISM INDUSTRY: FUTURE GROWTH PROSPECTS POST-COVID 19

13th MAY, 2020 | 12:00 PM - 1:00 PM

By: **Mr. Subir Kumar Malakar**  
Assistant Professor, APT

**REGISTER NOW!**

**CAREER COUNSELLING WEBINAR ON** EMERGING CAREER OPPORTUNITIES & SKILLS REQUIRED - 2030

7th APRIL, 2020  
12 PM - 1 PM

By: **Prof. (Dr.) Rajesh Math**, Director, Amity Institute of Behavioural & Allied Sciences

**REGISTER NOW!**

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**WEBINAR ON** TOP 10 TRENDS RESHAPING LEGAL PROFESSION

26th MAY, 2020 | 12:00 PM - 1:00 PM

By: **Maj Gen P K Sharma**  
Dean, Faculty of Law

**REGISTER NOW!**

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**WEBINAR ON** EMERGING CAREER IN IOT, AI AND MACHINE LEARNING

Date: 1st May 2020  
Time: 12:00 NOON TO 1:00 PM

By: **Dr. Vikas Thada**  
Associate Professor, Amity School of Engineering & Technology

**REGISTER NOW!**

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**CAREER COUNSELLING WEBINAR ON** HOW LEARNING OF FOREIGN LANGUAGE BOOST YOUR CAREER

8th APRIL, 2020 - 4 PM - 5 PM

By: **Ms. Geetika Agrawal**, Amity's Senior Faculty & Domain Expert

**REGISTER NOW!**

### IN THE NEWS



**Great opportunity for Digital Learning during COVID-19-Prof PB Sharma, Vice Chancellor, Amity University Gurugram**

Published on April 2, 2020

As the nationwide lockdown due to Corona Virus COVID-19 continues, working from home for the teachers and learning from home for students has become a great opportunity to utilize digital learning platforms like MS Teams, Zoom, Moodle and others. This is also in line with our efforts to keep the students at home engaged to upgrade their knowledge and skills of their respective domains as well as to avoid built up stresses due to lockdown at home, says Prof PB Sharma Vice Chancellor Amity University Gurugram who is also the Founder Vice Chancellor of DTU and RGPV.

Digital learning provides a broad canvas for both formal and informal learning in groups as well as in self-learning modes. India is blessed with advantage connectivity and deep penetration of internet and digital systems. As per the SCIEE report says internet users in India have reported an annual growth of 4% during the last few years, taking internet facility to far million users in India to access. This creates a great 'advantage IT' for both the urban as well as the rural India. Increased availability of bandwidth, cheap data plans and increased engagement on social media has gone a long way to make Indians of all age groups IT savvy and global citizens. In the education sector our immediate priority during COVID-



**Industry Experts addressed Orientation Program at Amity University Gurugram**

13 Sep 2020

AMITY UNIVERSITY GURUGRAM: Keeping its tradition of blending modernity with the antiquity of India's spiritual civilization, Amity University Gurugram began its weeklong Orientation program today with the Vedic Mantra invoking the powers of divinity and blessings of God Almighty as also to imbibe the spirit of giving back to nature what we receive. The first-day orientation was participated by around 1500 students and parents and was graced by Chancellor of AMU Dr. Aseem Chauhan.



**Industry Experts addressed Orientation Program at Amity Gurugram**

13 September 1, 2020 | 3 Govt Achary | 3 Education | 3 B

Education > Industry Experts addressed Orientation Program at Amity Gurugram

Amity Webinar: Decentralization, Decarbonization and Discipline should be pillars of Post-COVID India, says Padma Vibhushan Dr RA Mashelkar

Amity Webinar: Decentralization, Decarbonization and Discipline should be pillars of Post-COVID India, says Padma Vibhushan Dr RA Mashelkar

Amity Webinar: Decentralization, Decarbonization and Discipline should be pillars of Post-COVID India, says Padma Vibhushan Dr RA Mashelkar



**Lockdown a bliss or vice in India: Prof PB Sharma**

13 Sep 2020

National Highway-48 (Delhi-Gurugram Bypass (Delhi-Jaipur Highway)) that is generally abuzz with over 300,000 vehicles, looks like this now.

Each day as I rise only to count the infected Covid cases and deaths around the world. It makes me sad but also alarmed as the high and mighty have suffered more than the poor and developing countries. But that is no solace. The truth is that everyone is badly shaken as we see no near end of this deadly Pandemic crisis that has made the entire global community rush for self-inflicted isolation, even from near and dear, says eminent educationist Prof PB Sharma Vice Chancellor Amity University Gurugram.


With factories shut and businesses closed for over 40 days, the worst-hit are those whose daily bread and butter were coming from their daily hard-earned wages. They are the worst hit as they had no reserves to lean on. The Covid lockdown has badly shaken rather than destroyed the world economy.



**Would Indian Government or Indians take heed from Corona Lockdown- perhaps no- Prof PB Sharma**

13 Sep 2020 | Prabhat Datta | Business | 3 B

Business News This Week > Business > Would Indian Government or Indians take heed from Corona Lockdown- perhaps no- Prof PB Sharma



**Guideline for Health and Wellbeing in the times of COVID-19 Pandemic**


The power of positivity and optimism, which is our seventh sense, is the force that gives us the strength and the attitude to stand firm at the most difficult and trying times of our lives

**Nurture positivity and use your mind wisely to create healthy environment during covid-19: Dr Sangeeta Reddy**

Delivered Amity eminent webinar address organized by Amity University Gurugram

09 May, 2020 by **Dr Padmalali Banerjee**

Covid-19 could be the most dreaded word for now and in times to come but the inbuilt human resilience will see us through as it has done in the past in similar situations. The power of positivity and optimism, which is our seventh sense, is the force that gives us the strength and the attitude to stand firm at the most difficult and trying times of our lives. Our body responds to the mental stimulus and prepares itself for the challenges. As we need is the will to fight the negativity, fear and despair and prepare ourselves to face any eventuality by remaining optimistic. This pandemic has affected every aspect of our lives and not just physical health. Therefore we have to fortify every aspect of our life against it.



**Amity Webinar: Decentralization, Decarbonization and Discipline should be pillars of Post-COVID India, says Padma Vibhushan Dr RA Mashelkar**

Amity Webinar: Decentralization, Decarbonization and Discipline should be pillars of Post-COVID India, says Padma Vibhushan Dr RA Mashelkar

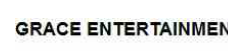
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Amity Webinar: Decentralization, Decarbonization and Discipline should be pillars of Post-COVID India, says Padma Vibhushan Dr RA Mashelkar



**Covid- 19 A Great Opportunity to Build a Better World - Nobel Peace Laureate Prof Muhammed Yunus at Amity Webinar.**

Amity Eminent Webinar Series: REBUILDING A BETTER WORLD- SOCIAL BUSINESS DURING COVID TIMES

Nobel Peace Laureate **PROF. MUHAMMAD YUNUS**

Lock down a bliss or vice- Prof PB Sharma Amity University Gurugram



**Great opportunity for Digital Learning during COVID-19**

Says Prof PB Sharma, Vice Chancellor, Amity University Gurugram

Great opportunity for Digital Learning during COVID-19



**Lock down a bliss or vice- Prof PB Sharma Amity University Gurugram**

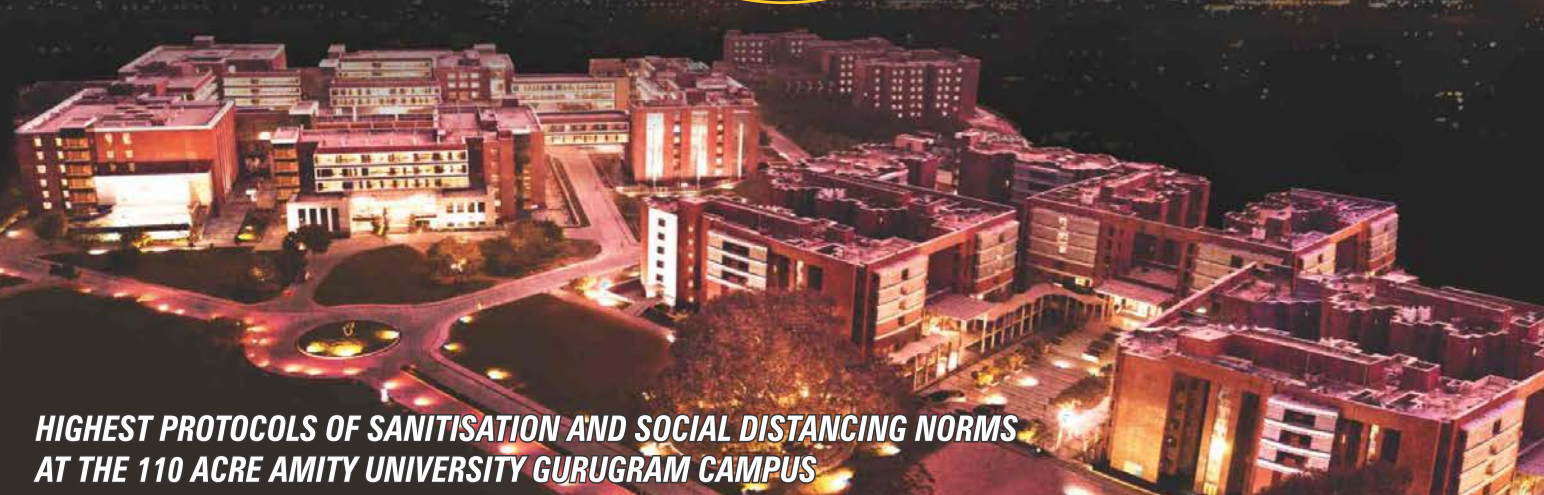
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AS A COVID-19 HUMANITARIAN GESTURE

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(International)</li> <li>• B.Sc.- Animation &amp; Visual Graphics</li> <li>• MA.- Journalism &amp; Mass Comm.</li> <li>• PG Diploma in Journalism &amp; Mass Communication</li> </ul>	<p><b>ENGINEERING</b></p> <ul style="list-style-type: none"> <li>• B.Tech - Internet of Things/ Aerospace/ Civil/ CSE/ ECE/ Mech./ Elect. &amp; Elec./ Biomedical/ Artificial Intelligence &amp; Machine Learning</li> <li>• B.Tech (CSE.)+MBA - Dual Degree</li> <li>• B.Tech+M.Tech (Artificial Intelligence &amp; Machine Learning/ Data Sciences/ Network &amp; Cyber Security)</li> <li>• B.Tech - CSE (International)</li> <li>• M.Tech - Data Sc./ Network &amp; Cyber Security/ CSE/ ECE/ Solar &amp; Alternate Energy/ Atmospheric Tech. &amp; Climate Mgmt./ Construction Tech. &amp; Mgmt.</li> <li>• M.Tech - Mech. Engg. (Spl. Offered - Thermal Engg./ Machine Design Industrial and Production Engg.)</li> <li>• M.Tech - Civil Engg (Spl. Offered - Structural Engg./ Environmental Engg./ Transportation Engg./ Construction Technology &amp; Management)</li> <li>• M.Tech Artificial Intelligence (Spl. Offered- Robotics/ Machine Learning)</li> <li>• M. Tech - CSE (International)</li> </ul> <p><b>BIOTECHNOLOGY</b></p> <ul style="list-style-type: none"> <li>• B.Tech - Biotechnology</li> <li>• B.Sc. (H) - Biotechnology / Biological Sc.</li> <li>• M.Sc. - Biotechnology</li> <li>• M.Tech - Biotechnology</li> </ul> <p><b>PHARMACY</b></p> <ul style="list-style-type: none"> <li>• B.Pharm* (Approved by PCI)</li> </ul> <p><b>INTEGRATED SCIENCES &amp; HEALTH</b></p> <ul style="list-style-type: none"> <li>• M.Sc. - Data Sc. • PG Dip. in Data Sc.</li> </ul>	<p><b>LAW</b></p> <ul style="list-style-type: none"> <li>• BA., LL.B. (H)* 5 yrs.</li> <li>• B.Com., LL.B. (H)* 5 yrs.</li> <li>• BBA, LL.B. (H)* 5 yrs.</li> <li>(*Approved by BCI)</li> <li>• LL.M.</li> </ul> <p><b>FINE ARTS</b></p> <ul style="list-style-type: none"> <li>• BFA • MFA</li> </ul> <p><b>FASHION</b></p> <ul style="list-style-type: none"> <li>• Bachelor of Design</li> </ul> <p><b>APPLIED SCIENCES</b></p> <ul style="list-style-type: none"> <li>• B.Sc. (H)- Physics/ Chemistry/ Mathematics/Earth Sciences</li> <li>• M.Sc. - Applied Physics/ Applied Chemistry/ Applied Mathematics/ Biochemistry/ Environmental Sc. &amp; Mgmt./ Renewable Energy (FT/ PT)</li> </ul> <p><b>FORENSIC SCIENCES</b></p> <ul style="list-style-type: none"> <li>• B.Sc. (H) - Forensic Sciences</li> <li>• M.Sc. - Forensic Sciences</li> </ul> <p><b>COMMERCE</b></p> <ul style="list-style-type: none"> <li>• B.Com (H) • M.Com</li> </ul> <p><b>NURSING</b></p> <ul style="list-style-type: none"> <li>• B.Sc. (Nursing)*</li> <li>• B.Sc. (Nursing) Post Basic* (*Approved by INC &amp; HNRC)</li> <li>• M.Sc. Nursing (Spl. offered - Community Health Nursing*/ Medical Surgical Nursing*/ Psychiatric Nursing*/ Obstetric &amp; Gynaecological Nursing*/ Paediatric Nursing*)(*Approved by INC)</li> </ul>	<p><b>ARCHITECTURE</b></p> <ul style="list-style-type: none"> <li>• B.Arch.* (Approved by CoA)</li> <li>• Bachelor of Planning/ Interior Design</li> <li>• Master of Planning - Urban &amp; Regional</li> </ul> <p><b>SOCIAL WORK</b></p> <ul style="list-style-type: none"> <li>• Master of Social Work</li> </ul> <p><b>TRAVEL &amp; TOURISM</b></p> <ul style="list-style-type: none"> <li>• Bachelor of Tourism &amp; Travel Management</li> </ul> <p><b>HOSPITALITY</b></p> <ul style="list-style-type: none"> <li>• Bachelor of Hotel Management</li> </ul> <p><b>PSYCHOLOGY &amp; BEHAVIOURAL SC.</b></p> <ul style="list-style-type: none"> <li>• B.A.(H)- Applied Psy. • B.Sc.-Clinical Psy.</li> <li>• M.A. - Counselling Psy./ Applied Psy.</li> <li>• M.Sc. - Clinical Psychology</li> <li>• M.Phil. - Clinical Psy. (*Approved by RCI)</li> </ul> <p><b>MEDICAL</b></p> <ul style="list-style-type: none"> <li>• B.Sc. - Dietetics &amp; Applied Nutrition/ Medical Lab Technology</li> <li>• Bachelor of Audiology &amp; Speech Language Pathology* (*Approved by RCI)</li> <li>• B.Sc. - Molecular Medicine &amp; Stem Cell Technologies</li> <li>• Bachelor of Optometry</li> <li>• M.Sc. - Clinical Research/ Dietetics &amp; Applied Nutrition/ Medical Lab Tech.</li> <li>• M.Sc. - Molecular Medicine &amp; Stem Cell Technologies</li> <li>• Master of Optometry/ Public Health/ Optometry (M.Optom) Practitioner/ Hospital Admin./ Hospital Admin. (Executive) for working professionals</li> </ul>
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