



“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



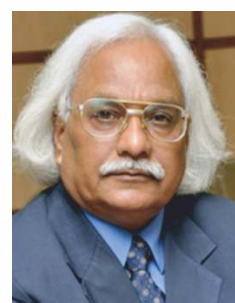
Dr. Aseem Chauhan, Chancellor of Amity University, is also the CEO of Amity Innovation Incubator and Amity Capital Ventures. He has extensive venture capital and strategic planning experience, with additional focus on entrepreneurship for youth in India. Dr. Chauhan has received numerous awards for leadership and citizenship, including selection as one of 100 “Champions of Change” by Prime Minister Modi of India. He holds degrees in Engineering, Finance, and Strategic Management from The Wharton Business School at the University of Pennsylvania and is an alumnus of the prestigious Jerome Fisher Program in Management & Technology. To mark his birthday, Amity University Gurugram celebrates this day as the **Innovation Day**, to inculcate in all, the spirit of innovation.

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.

University Newsletter 'Chronicle' is an endeavour to reflect on 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 the 12th edition of the University Chronicle.



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

DOCTORAL RESEARCH TO FOCUS ON NATIONAL MISSIONS AND GLOBAL CHALLENGES-EXPERTS AT WORLD DOCTORATES DAY 2021 ORGANISED BY AMITY UNIVERSITY HARYANA

With a view to inspire the research community around the globe to the noble objectives of scientific research, the World Doctorates Day is celebrated each year on August 25th. This year the honour of hosting the World Doctorates Day 2021 was given to the research and innovation-driven Amity University Haryana, Gurugram (AUH). The day also marked the hosting of the 9th International Conference on Issues and Challenges in Doctoral Research.

A galaxy of eminent speakers who shared their thoughts at the World Doctorates Day today included Nobel Laureate of Peace Shri Kailash Satyarthi; Nobel Laureate of Peace Prof. Muhammad Yunus; Distinguished National Scientist Padma Vibhushan Dr. RA Mashelkar; and Distinguished Educationist Padma Shri JS Rajput among others. The President of the Association of Indian Universities, Dr. G Thiruvadasagum was the distinguished Guest of Honour and Father of India's PARAM Supercomputer Dr. Vijay Bhatkar was the Chief Guest at the inaugural function that was graced by the Chancellor of AUH, Dr. Aseem Chauhan.

Inaugurating the World Doctorates Day 2021 Celebrations, Padma Bhushan Dr. Vijay Bhatkar said, “We in India are in a highly opportune time to play a major role in fostering a new era of scientific explorations and technological advancements that shall not only meet and greet the current challenges but also help in achieving the Sustainable Development Goals (SDGs) for the global community. India can reap rich dividends from doctoral research as it has the highly innovative and inspired minds of young India pursuing their higher education and research in areas of high relevance to the new age of



mind-boggling scientific advancement and technology innovations.” “The purpose of research should invariably be linked to the purpose of life to make the pursuit of research sustain this beautiful world”, added Dr. Bhatkar.

The renowned scientist and former Director-General of CSIR, Padma Vibhushan Dr. RA Mashelkar in his address said “World Doctorates Day celebrates the achievements of human mind in terms of ability to create new ideas and new knowledge. The research they carry out should

solve the current and future challenges. The researchers of the new age must also translate this knowledge into innovations and create new innovative products and technologies to foster growth of new enterprises. They must also consciously work for the well-being of human society. For this they must practice scientific ethics and human values”.

Addressing the august gathering of global research community at World Doctorates Day, Nobel Peace Laureate Sri Kailash Satyarthi emphasised on imbining a deep love for research and its relentless pursuit to dig deep into the treasure that lies hidden in the depth of knowledge. He enthralled the researchers saying that “Your research is not only for your personal achievements but for the betterment of human society. Think also of the millions of children in the world who have no access to the knowledge that you have. As such your research should also result in actions for the betterment of these millions of children around the globe.”

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FACULTY ENRICHMENT PROGRAMME AT AMITY UNIVERSITY HARYANA STAFF COLLEGE INAUGURATED BY PADMA VIBHUSHAN DR. RA MASHELKAR, FOUNDER CHAIRMAN - NATIONAL INNOVATION COUNCIL



Amity Academic Staff College at Amity University Haryana organised a Six-Day Online Faculty Enrichment Programme from 21st to 26th June 2021. The programme was inaugurated by Dr. RA Mashelkar, FRS, Founder Chairman- National Innovation Council and Former Director General of CSIR in the august presence of Hon'ble Chancellor Dr. Aseem Chauhan; Hon'ble Vice Chancellor Prof. (Dr.) PB Sharma; Vice Chancellors of other Amity Universities in India; Deans; Heads of Institutions; large number of faculty members and 175 registered participants from various universities and institutions from across the country.

During the programme, the former Lead Technologist of NASA Johnson Space Centre, Dr. Kumar Krishen vividly enunciated the 13LP concept – i.e. Inspiration, Imagination, Inclusion, Leadership & Perspiration. His talk was extremely stimulating and delved upon many interesting issues such as Purpose of Life; Knowledge is Power; Translation of Knowledge into Wisdom; Nurturing Leadership Qualities; and Having Compassion, Love and Truthfulness.

Delivering the inaugural address titled “The Paradigm shift of Innovative Integration of Education, Research and Innovation”, Padma Vibhushan Dr. RA Mashelkar, Eminent Scientist & former Director General, CSIR shared his insightful thoughts and opined that, “Teachers are architects of the future of the country. Getting a degree is not the end of education. To remain relevant you have to learn, unlearn and re-learn throughout your life. Integrate the joy and excitement of research and innovations into teaching and excite the imagination and intuition of the students to prepare for the science and technologies of tomorrow”. He enunciated five new roles for the university teachers to meet the challenges of a new generation of students, i.e. Mass Customization; from Just Telling to Actually Listening; to becoming Domain Content Delivery Expert; from Instructors to becoming the Conductors; and from Collecting Dots to Connecting Dots.

In his words of wisdom, Dr. Aseem Chauhan, Hon'ble Chancellor,

Amity University Haryana said, “Teachers have to play a pivotal role as leaders in their domain areas and should work as mentors. For this they need to regularly upgrade their knowledge-base as well as technology skills. Much of this upgradation should be self motivated. Teachers should have the capabilities to adopt advanced technologies and should have the willingness to experiment with innovative technologies to improve learning outcomes.”

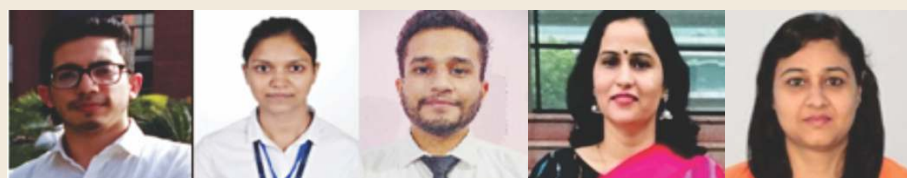
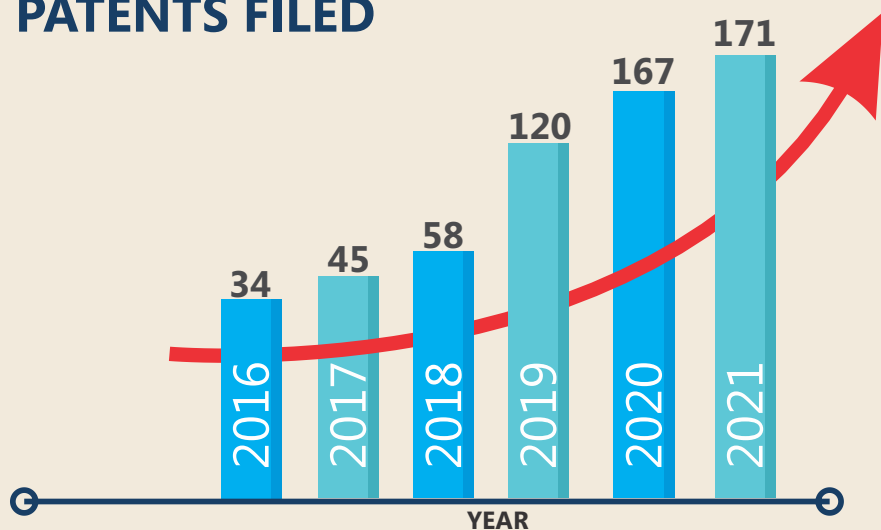
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NATIONAL INTELLECTUAL PROPERTY AWARD 2020

**TOP INDIAN ACADEMIC INSTITUTION
FOR PATENTS AND
COMMERCIALIZATION**



PATENTS FILED



INVENTION:

A system and method of L-DOPA response prediction for Parkinson's disease using machine learning approach

INVENTORS: Haziq Rahat Bullah, AUH; Ritika Agarwal, AUH; Abhishek Prabhakar, AUH; Aman Jatain, AUH; Shalini Bhaskar Bajaj, AUH

ABSTRACT OF INVENTION:

Developed a method of L-DOPA drug response prediction for Parkinson's disease using Machine Learning. Based on a study comprising of 28 Parkinson's disorder subjects, it stipulates the indispensable prefatory encouragement to the adaptive advancement of decision trees as an illuminating technique to predict treatment response in Parkinson's disorder.



INVENTION:

An antimicrobial face mask using nanoparticle coating

INVENTORS:

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

ABSTRACT OF INVENTION:

A three-layered reusable, biodegradable, anti-microbial face mask, whose middle layer is coated with nanoparticles with anti-microbial properties. The middle layer, can be washed or replaced with new filtration assembly. It can also be upgraded to N95 grade.



INVENTION:

A head gesture-controlled wheelchair system

INVENTORS:

Kiran Somiseti, AUH; Rohit Phogat, AUH; Khushboo Tripathi, AUH

ABSTRACT OF INVENTION:

Developed a head-gesture controlled wheelchair, based on a micro-controller that actuates the wheelchair's movement; an electric motor that moves the wheelchair on receiving a signal from the micro-controller; a head wearing unit with an accelerometer sensor; and a solar panel for providing solar power supply to all electronic components.

RESEARCH CLUSTERS

THE CANCER RESEARCH CLUSTER

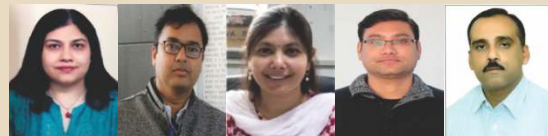
RESEARCH HIGHLIGHTS

- Gargi Bagchi: Hormone Signaling and Cancer
- Amit K Pandey: Non-coding RNA and Cancer
- Ujjaini Dasgupta: Breast Cancer • Munindra Ruwali: Head and Neck Cancer

• PhD Students: 9 • Ongoing Projects: 11 • Papers Published: 10 • MS in Preparation: 5
• Grants Applied: 5 • Patents: 4

INTERNATIONAL NETWORK DEVELOPED:

- Curie Institute, Paris • Shemyakin-Ovchinnikov Institute of Bioorganic Chemistry of the Russian Academy of Sciences, Moscow, Russian Federation • Cancer Science Institute of Singapore



LIPIDOMICS RESEARCH CLUSTER

RESEARCH HIGHLIGHTS

- Rajendra Prasad: Fungal Drug Resistance
- Ujjaini Dasgupta: Cancer Biology
- Zeeshan Fatima: Mycobacterium Infection and MDR • Nitai Debnath: Plant Nanotechnology

PhD Students: 8 • Ongoing Projects: 10 • Papers published: 15 • MS in preparation: 10 • Grants applied: 5
WORKSHOP/SHORT-TERM COURSE

- Amity Lipidomics Research Facility (ALRF), AUH and Sciex, Gurgaon, Haryana organised the first Short-term Course on 'General Principles of Lipidomics and Proteomics' from 25 to 29 March 2019 at Amity University Haryana
- Webinar based workshop on 'General Principles of Lipidomics and Proteomics' from 13 to 14 October 2020
- Network Developed:** JNU, RCB, NII, ICGB, NIPGR.



RESEARCH CLUSTER NANOSCIENCE & NANOTECHNOLOGY

RESEARCH HIGHLIGHTS

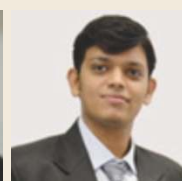
Research Thrust Areas:

- Nano Generators for Self Powered Electronics & Artificial Intelligence
- Nano-Bio-Electronics
- 2D Nano Materials for Ultra Fast Electronics
- Carbon Based Nanomaterials
- Magnetic Thin Films and Multilayers
- Nanomaterials and Films for High Temperature Applications

Projects: 2

- Papers Published (SCOPUS): 62 • Competitive Research Funding: 5 • Patents Filed: 21 • PhD students: 19
- International Research Collaboration: 3 • International Research Visits: 4 • R&D Projects Submitted: 4
- MoUs: 7 • Invited talks: 12

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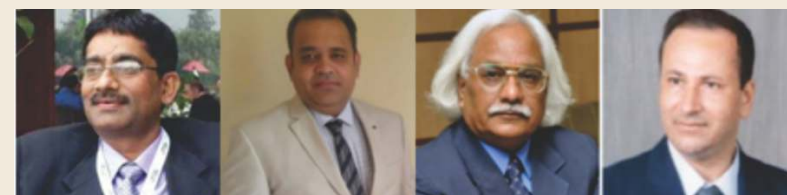


INVENTION:

A method providing spliced transcripts of CERS2 gene to alter the level of ceramides to effect tumor regression

INVENTORS: Sujaini Dasgupta, AUH; Ravi Datta Sharma, AUH

ABSTRACT OF INVENTION: An exon skipping event in Ceramide Synthase 2 gene that codes for very long chain ceramides identified from breast tumor tissue samples can be used as a biomarker / diagnostic marker. The focus is to use it as a therapeutic intervention.



INVENTION:

A method for preparing an advanced Graphene and natural silk reinforced Epoxy composite materials

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

ABSTRACT OF INVENTION:

Developed an Epoxy resin reinforced with Graphene and natural silk composite material, that is light weight but has high impact strength and toughness. The first time that Graphene and natural silk fibre have been used together for this, the material has structural uses in wind turbine blades, aircraft wings and bullet-proof vests.



INVENTION:

3D manufacturing of N95 Mask having inherent antimicrobial properties

INVENTORS: Dr. Atul Thakur, Director, AINT; Dr. Preeti Thakur, Head, Physics; Prof. (Dr.) P. B. Sharma, Hon'ble VC, AUH



ABSTRACT OF INVENTION: Established in-house manufacturing of N95 masks at industrial scale using 3D printing technology. A research laboratory and industrial-scale manufacturing facility was set up at AUH, and using polymeric raw material with antimicrobial properties, developed N95 masks at lower costs, which are Antimicrobial, Hydrophobic, Skin-friendly, Reusable, Economic, and Recyclable.

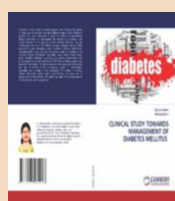


- COMBAT VEHICLE ENGINEERING
- HIGH ENERGY MATERIALS TECHNOLOGY
- AEROSPACE TECHNOLOGY
- COMMUNICATION SYSTEMS & SENSORS
- NAVAL TECHNOLOGY
- DIRECTED ENERGY TECHNOLOGY

BOOKS PUBLISHED



Dr. Vikram Singh
Prevention and treatment of Diabetes and Cardiovascular Disease



Dr. Girija Kumari
Assistant Professor,
Department of Clinical Research
Amity Medical School, AUH

Dr. VIKRAM SINGH, Assistant Professor, Department of MLT and **Dr. GIRIJA KUMARI**, Assistant Professor Department of Clinical Research at Amity Medical School have authored 4 books titled "Prevention and Treatment of Diabetes and Cardiovascular Disease", "Clinical Study towards Management of Diabetes Mellitus", "Principles of Clinical Microbiology Laboratory" and "Diagnosis, Prevention and Control of COVID-19". These books were published during the academic year 2020-2021.

Hybrid Teaching and Learning: Stretching the boundaries of classroom in time and space



Prof. (Dr.) Padmakali Banerjee

Pro Vice Chancellor
Dean Academics
Head Quality & Accreditation
Amity University Haryana

We are at the threshold of another, new, academic session with a concoction of hope and managing change. Amity has embraced a hybrid model of teaching learning as the way forward.

The success stories of the year 2020 are our building blocks. Under the visionary leadership of Honorable Chancellor, the online teaching methodology was adopted immediately after receiving the directives of Government's closure of all Educational Institutions in March 2020. Innovation has been the hallmark of academic practices at Amity University Haryana. Apart from restructuring of pedagogical elements, necessary to create successful delivery of online sessions, some effective rebooting of students' communication was also installed to make contact hours and accessibility more effective. In the beginning, focus areas were familiarization with Microsoft Team and its synchronization with learning methodologies of classroom teaching.

With an aim to maintain the standards and quality of traditional mode of learning, extensive planning and preparation were initiated. Hols and HoDs played a vital role in being vigilant of the progress through constant monitoring. Assessments in the form of Assignments, Quizzes, Viva Voce, PPT submissions, Case Analysis, Legal Case Analysis, Art Form Presentations etc. were uploaded through Microsoft Team, Amizone, LMS and were monitored and evaluated by faculty members for the continuous assessment component of evaluation. For the enhancement of teaching pedagogy and research and knowledge of LMS, online FDP for faculty members were also organised. Soft Skills workshop for non academic staff members of AUH was conducted in a phased manner for all institutions.

Introduction of online Programme Management form, for enhanced connect with Academic Affairs team in matters of teaching-learning by Hol's, HoD's, programme coordinators and faculty members, facilitated a platform for immediate connect for any area of academic matter by faculty members through Amizone.

The online Orientation for the new batch of 2020-21 students was successful in familiarizing the students to our state-of-the-art campus, the rich intellectual capital and infrastructure. It initiated them to the culture of academic excellence and research which is an inherent part of the Amity University fabric. The introduction of Single Window student services team at Academic Affairs facilitated the integration of new students with the University by resolving their queries and issues. Its turnaround time of 24 hours reflects its high efficacy!

The unprecedented challenge of online examination and assessment was also met with error free and hassle-free conduct. With the support of all Institutions and Departments and an unhindered communication between all related departments, we were able to meet the challenge with elan.

In such a critical time, building trust among parents and students is integral to an effective system. Students' / Parents' feedback survey, initiated during the pandemic, helped us to understand and resolve issues better. It would be relevant to mention, at this point, that the response received through the feedback confirmed that we are on the right track and have achieved our goal of optimum utilization of resources during the pandemic.

Mentor-Mentee system has been a successful model which has created a unique bond between faculty and students and has helped in the effective resolution of many personal and professional issues of students. The session continued online and proved highly effective in the absence of campus interactions.

Meanwhile our Centers of Excellence continued to excel in their designated thrust areas. Apart from continuing with their innovative practices, their contribution in organising events, FDPs and SDPs deserve commendation. In this context, the 5 Day Professional Development Programme organised

by Yunus Social Business Centre in association with Amity Skills Institute and Amity Innovation incubator - **"Entrepreneurship: The new age skills for sustainable future and social development"**, got resonating applause from academia and industry alike. The programme was zealously attended by participants from across the country and included research scholars, faculty, and budding entrepreneurs from corporate arena.

The objective of the five-day Professional Development Programme on 'Entrepreneurship' was to focus on identification and development of skills required for a successful entrepreneurial journey. Many distinguished guest speakers from Government, Industry and Academia contributed to the programme and trained the participants on expert domains like Data Analytics, Case Studies, Design Thinking, Intellectual Copy Rights, Skilling and most importantly on the mindset of an entrepreneur. India is creating an ecosystem for the entrepreneurs, especially after globalization, and has emerged as a leading country in 'Ease of Doing Business'. These developments in the Indian Ecosystem have encouraged many to embrace entrepreneurship as one of the preferred career choices. Therefore, this programme proved to be an exclusive platform to learn, dream and embark on the entrepreneurial journey. Participants found interactions with experts from Northampton University, University of Bolton, @ Top Market Leader Brand and National Institute of Technology - Arunachal Pradesh, enlightening and inspiring. I am sure that listening to young leaders from Mckinsey and other successful startups must have been inspiring and encouraging. Although it was an online training, yet workshops on Data Analysis and Case Studies were conducted by international experts. The initiative also highlighted the evolving role of women as entrepreneur. The training and knowledge imparted during the programme would help many to materialise their entrepreneurial dreams.

Finally, a receding Covid has encouraged us to open our gates to students. As we take the baby steps towards normalization, the Hybrid mode of teaching-learning has been initiated. The on-campus classes are simultaneously held online for the students who are unable to attend classroom sessions. The world is indicating towards a Hybrid mode of teaching-learning and we are no exception.

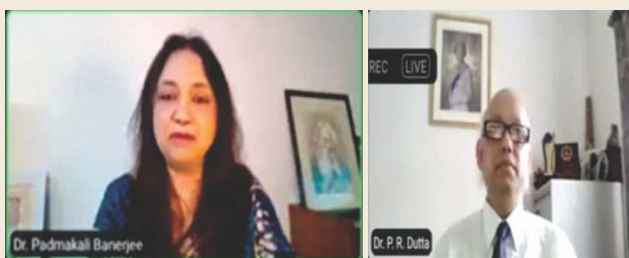
PROFESSIONAL DEVELOPMENT PROGRAMME ON ENTREPRENEURSHIP: THE NEW AGE SKILLS FOR SUSTAINABLE FUTURE AND SOCIAL DEVELOPMENT

Amity University Haryana organised Professional Development Programme on Entrepreneurship: The New Age Skills For Sustainable Future And Social Development between 19th July – 23rd July 2021.

The objective of this five-day Professional Development Programme on 'Entrepreneurship' was to focus on identification and development of skills required for a successful entrepreneurial journey. It helped the participants transit their innovative ideas to the next level, while imbibing learning which had a lasting impact on their educational and professional development. The programme was beneficial to faculty members, research scholars, students, working professionals and budding entrepreneurs.

Addressing the gathering, **Dr. Roopak Vasishtha**, CEO, Apparel and Madeups Sector Skill Council, deliberated on how entrepreneurship is being used by Government of India to actually create an amicable ecosystem and environment facilitating entrepreneurship. Starting from 2014, apparel sector has trained 35 lakh people out of which 3 lakh have started their own entrepreneurship and have become job creators. Many of these young people have opted for opening Start-Ups instead of salaried employment. Many entrepreneur trainees in apparel sector have started their own enterprise.

"Today's age of entrepreneurship is attracting young people to open their Start-Ups. Aspirants need to take baby steps first and then scale up later on.



There are lots of agencies that are encouraging funding opportunity as soft loans for entrepreneurial ventures," added Dr. Vasishtha.

While explaining about Entrepreneurship Mindset, Dr. P R Dutta, Executive Chair - Centre for Business & Economic Research; Editor-in-Chief, Journal of Business and Retail Management Research; Senior Lecturer, Northampton University at Regent College emphasised on entrepreneurial mindset that is a combination of beliefs, focus and attitude. It is distinct from skills and knowledge. According to him India is the best place to initiate entrepreneurship because of its vibrant democracy and huge pool of young talents.



Dr. Ashok K Chauhan
Founder President,
Amity Education Group

Dr. Aseem Chauhan
Chancellor,
Amity University Haryana

PROFESSIONAL DEVELOPMENT PROGRAMME on ENTREPRENEURSHIP

The new age skills for sustainable future and social development

19th July to 23rd July 2021 | 10 AM-1 PM

 Dr. P B Sharma Vice Chancellor, Amity University Haryana	 Maj. Gen. B S Suhag Dy Vice Chancellor, Amity University Haryana	 Dr. Padmakali Banerjee Pro Vice Chancellor, Amity University Haryana
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Speaker

 Dr. Roopak Vasishtha CEO & Director General Apparel Made-Ups & Home Furnishing Sector Skill Council, Govt of India	 Dr. Vinod Kumar Murti Country Head, Institute of Analytics, London India	 Aakash Gupta Leader, Client Capabilities Hub McKinsey, India	 Dr. P. R. Dutta Executive Chair- Centre for Business & Economic Research, Editor-in-Chief, Journal of Business and Retail Management Research, Senior Lecturer Northampton University at Regent College	 Dr. Vikas Madhukar Dy Pro Vice Chancellor, Dean Faculty of Management Studies Amity University Haryana
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 Mr. Sameer Kaul Entrepreneur, Speaker, Former CEO, COO and CMO @ Top Market Leader Brands, India's Top 50 CMOs list	 Dr. Shweta Singh CEO, Ennoble	 Mr. Addison Appu VP-Investments, Thinkvate	 Indranil Bose Dean, School of Business University of Bolton, Academic Centre Ras Al Khaimah, United Arab Emirates	 Dr. Anuja Pandey Professor-Marketing, Head, India Case Research Centre – AIM-ICRC Program Director – PGCM Programs
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 Prof. Amar Kr. Sundram Professor - Commercial Legal Practice, Jindal Global Law School of O.P. Jindal Global University, Sonapat, Haryana	 Prof. M. K. Shome Ph.D. Dept. of Management, National Institute of Technology -Arunachal Pradesh Member of Senate, Vice President-Institution's Innovation Council (IIC) IIC, Innovation Ambassador, Ministry of Education cell, Govt. of India
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Program Coordinators

Dr. Reena Nigam, Associate Professor, HoD, Amity Skills Institute, AUH

Dr. Tanushri Purohit, Associate Professor, Amity Business School, AUH

Mr. Sachin Juneja, Director - Market Promotions, AUH

Dr. Rajesh Nair, Director Amity School of Psychology shared a very interesting project JAI (Joint Advocacy Intervention). Conceptualized by Dr. Padmakali Banerjee, the project is a multidisciplinary and collaborative initiative under Amity's Global Wellbeing Forum. The project is a mission to combat the despair, among people, as a result of Covid-19 pandemic.

Mr. Aakash Gupta, Leader, Client Capabilities Hub, Mckinsey India said, "Entrepreneurship is the foundational skill and knowledge. It entails thinking about something, then creating and finally moving forward with it."

While delivering her opening address **Prof. Padmakali Banerjee**, Pro Vice Chancellor, Amity University Haryana said, "India is creating an ecosystem for the entrepreneurs, especially after globalization India has emerged as one of the best country in terms of 'Ease of Doing Business'. Covid19 pandemic also taught us to use digital platforms in the best way possible which is a great addition without using huge capital to start their entrepreneur journey."

"Entrepreneurship requires right kind of spirit and determination and never give up attitude for success," Dr. Banerjee added.

While delivering his welcome address Prof. (Dr.) Vikas Madhukar, Dy. Pro VC, Amity University Haryana, talked about the changing scenario of entrepreneurship and innovation ecosystem in India. That was followed by a brief outline of what Amity University Haryana is doing to promote entrepreneurship and innovation for students and other eligible aspirants who want to venture on opening Start-Ups.

Dr. Reena Nigam, HoD, Amity Skill Institute; Dr. Tanushri Purohit, Associate Professor, Academic Office; and Mr. Sachin Juneja, Director, Marketing, coordinated the event with elan.

Total 120 participants attended the session.

AMITY BUSINESS SCHOOL, GURUGRAM

RANKED AMONGST TOP 40 BUSINESS SCHOOLS IN INDIA

India Today-MDRA Survey 2021



AMITY SCHOOL OF APPLIED SCIENCES, GURUGRAM HAS BEEN RANKED AMONGST TOP 30 COLLEGES OF NORTH INDIA 2021

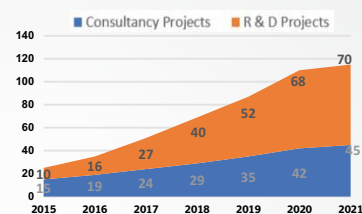


RESEARCH & INNOVATION 04

RESEARCH HIGHLIGHTS -2021

RESEARCH HIGHLIGHTS

S.No	Particulars	No.
1	Funded Projects Sanctioned	70 (30.72 Crores)
2	Patents Filed	175
3	Patents Published & Awarded	55 (P) 03 (A)
4	Books/Chapters	391
5	Conference Proceedings	957
6	Research Papers Published	4861



Total Scopus Citations - 6701
h index - 34
i10 index - 106



#AmityExperts #ResearchIsOurPassion



CONGRATULATIONS



Dr. Rajendra Prasad
Dean, Faculty of Science, Engineering and Technology

Ranks in the **TOP 0.059%** of 15,165 published authors worldwide on Fungal Drug Resistance Expertise (2011-21)



HIGH IMPACT RESEARCH PUBLICATIONS



Dr. Arun Kumar Sharma- Hydrogel nanotube with Ice Helix as Exotic Nanostructure for Diabetic Wound Healing. **Materials Horizons journal, Impact factor 13.2**



Dr. Ujjaini Dasgupta - A localized chimeric hydrogel therapy combats tumor progression through alteration of sphingolipid metabolism. **ACS Central Science (Impact Factor 12.8), A Leading Interdisciplinary Journal of American Chemical society**

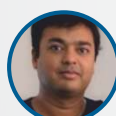


Dr. Ravi Datt Sharma - VapBC22 toxin-antitoxin system from Mycobacterium tuberculosis is required for pathogenesis and modulation of host immune response (June, 2020), **Science Advances (Impact Factor 12.804)**

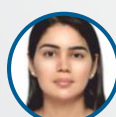
HIGH IMPACT RESEARCH PUBLICATIONS



Dr. Amit Kr Pandey - Repurposing of drugs: An attractive pharmacological strategy for cancer therapeutics, **Seminars in Cancer Biology (Impact Factor 11.09)**, Seminars in Cancer Biology is a review journal dedicated to keeping scientists informed of developments in the field of molecular oncology on a topic by topic basis.



Dr. Amit Kr Pandey The implication of long non-coding RNAs in the diagnosis, pathogenesis and drug resistance of pancreatic ductal adenocarcinoma and their possible therapeutic potential. **BBA- Reviews on Cancer (Impact Factor 7.3)**, BBA Reviews on Cancer covers the whole field of the biology and biochemistry of cancer



Dr. Deepa Suhag-Water-templated, Polysaccharide-rich, Bio-artificial 3D Microarchitectures as Extra-Cellular Matrix Bioautomatons, **ACS Applied Materials and Interfaces, Impact Factor: 8.8**

RESEARCH CLUSTERS

DATA SCIENCE AND COMPUTATIONAL BIOLOGY RESEARCH CLUSTER

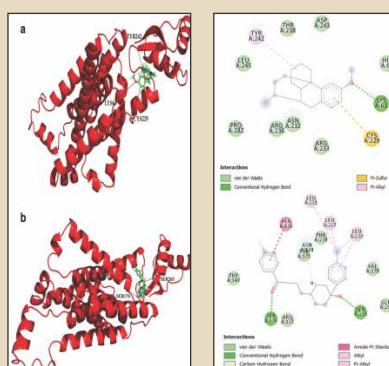
RESEARCH:

- Alok Srivastava: DS and System Biology
- Somyadeep Nandi: DS and Genomics
- Ravi D Sharma: DS and Computational Biology
- Amresh Prakash: DS and MD Simulation
- Shakir Bilal: DS and Modeling Infectious Diseases

- Ph.D Students: 11 • Ongoing Projects: 11 • Grants Applied: 3
- MS in Preparation: 12 • Papers Published: 24
- Network developed: JNU, RCB, NII, NIPGR

INTERNATIONAL NETWORK DEVELOPED:

- Curie Institute, Paris • Shemyakin-Ovchinnikov Institute of Bioorganic Chemistry of the Russian Academy of Sciences, Moscow, Russian Federation • Cancer Science Institute of Singapore



INFECTIOUS DISEASE RESEARCH CLUSTER

RESEARCH:

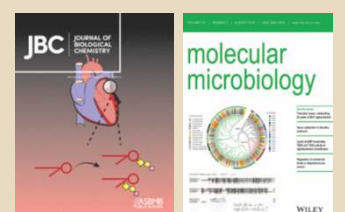
- Prof. Rajendra Prasad: Fungal drug resistance
- Dr. K. M. Sinha: C-di-AMP signaling in Mycobacterium
- Dr. Zeeshan Fatima: Mycobacterium infection and MDR
- Dr. Saif Hameed: Multidrug resistance in pathogenic fungi

Network Developed: JNU, RCB, NII, ICGB, NIPGR, IISc

Research and Publications: 16 • Competitive research funding: 4

• National and International Collaboration: 6

• Workshops and Conferences: 3 • Ph.D Students: 16



Alok Srivastava



Ravi D Sharma



Somyadeep Nandi



Amresh Prakash



Shakir Bilal



Rajendra Prasad



K.M. Sinha

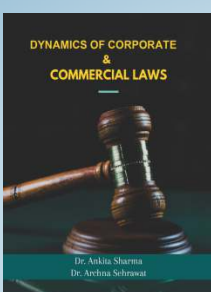


Zeeshan Fatima

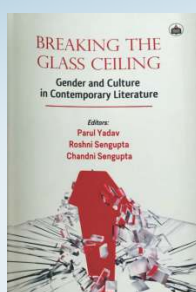


Saif Hameed

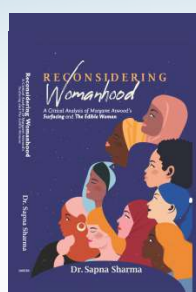
BOOKS PUBLISHED (PARTIAL LIST)



Dr Ankita Sharma and Dr. Archan Sehrawat
Assistant Professor, Amity Law School



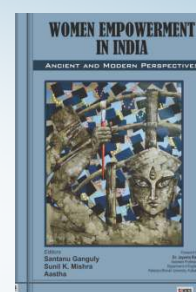
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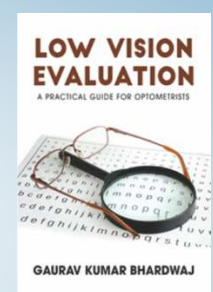
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Malik Pooja. (2021).
Dynamism and Realism-An Archetypal Paradigm of Manju Kapur's Novels: A Changed Face of Indian Feminism, Mauritius: Lambert Academic Publishing,



Ganguly, S., Mishra, S.K., & Aastha (2021)
Women Empowerment in India: Ancient and Modern Perspectives, Delhi: Sentics Publications



Gaurav K Bhardwaj, Sunanda Sarkhel
Low Vision Evaluation- A Practical Guide for Optometrists

**AMITY SCHOOL OF LIBERAL ARTS, GURUGRAM
HAS BEEN RANKED AMONGST TOP 35 COLLEGES OF NORTH INDIA 2021**

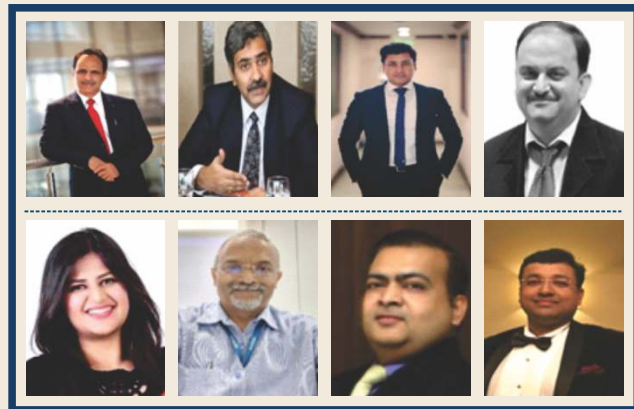


HAPPENINGS 05

INDUSTRY EXPERTS ADDRESSED ORIENTATION PROGRAMME 2021

Keeping its tradition of blending modernity with antiquity of India's spiritual civilisation, Amity University Gurugram began its week-long Orientation Programme for the Class of 2021 with the Vedic Hawan inspiring a sense of giving back to nature as also invoking the powers of divinity and blessings of Almighty. Around 1500 students & parents participated in the first day of the event and was graced by the Honorable Chancellor of AUH Dr. Aseem Chauhan. **The experts from the industry addressed the freshers on "Campus to Corporate: Transform yourself and be the game changer". Notable speakers included Shri Anil Bhasin, President (Superannuated), Havells India Ltd.; Mr. Ashutosh Chadha, Director and Country Head - Govt Affairs and Public Policy, Microsoft; Mr. Sharad Gupta, Director - Corporate Communications & Brand Strategy, Vice President - Innovation Labs, Escorts Limited; and Mr. Samir Kapur, Director, Ad Factors. They discussed and inspired the freshers to be future ready to work in the technology intensive work environment of the digital age. The experts also shared the current technology challenges and inspired the freshers to acquire the skill sets akin to the new and emerging technologies such as IoT, Big Data Analytics, AI and Robotics.**

Addressing the freshers, Honourable Chancellor of AUH, Dr. Aseem Chauhan said, "If you have a mission in life then nobody can stop you from achieving it. From today you are a part of Amity family, I want you to behave differently and act highly responsibly. I congratulate you for the choice you have made to join Amity University Gurugram".



Dr. Chauhan also explained the concept of 'BHAAG' i.e. Behavior, Hard work, Ambition, Attitude and faith in God almighty. It is this *panchamrit* of BHAAG, that is the mantra for success in life that our Founder President, Dr. Ashok K Chauhan always prescribes to all those who join the Amity family. Addressing the inspired minds of the Class of 2021, Prof. (Dr.) PB Sharma, Vice Chancellor, AUH, in his opening address on 'Empower yourself to create the World of Your Dreams' said that, "The new world demands a firm resolve to practice highest standards of sustainability, a conviction to foster green and sustainable development and an abiding faith in the dignity of man, practice of universal human values of truthfulness, peace and harmony and be responsible citizens of the global world" "At AUH you will have plenty of opportunities to acquire world quality education and engage in society and industry centric innovations, pursue your research goals in line with national missions and global aspirations and shape yourselves as the leaders of the new age of knowledge and innovation", added Prof. Sharma.

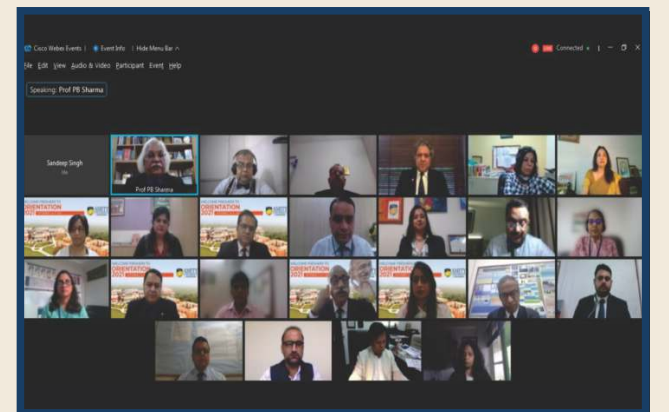
Prof. Sharma also shared the glimpses of major Research and Innovations happenings in AUH and invited the freshers to take the best advantage of the research-intensive academic environment that AUH offers. While motivating the students Maj. Gen. B S Suhag (Retd.), Dy. VC, AUH said, "Remember that in life your self-discipline and your commitment to serve and excel matters. Use your years at the university to acquire an attitude to succeed even in most difficult times." Addressing the students, Prof. Padmakali Banerjee, Pro VC, AUH said, "Dear Amitians, you all are the makers of history and harbingers of optimism. We, at Amity University Haryana, welcome you to an era of embedded and Hybrid Learning which is interesting, innovative and path breaking. The quantum of your commitment here will make you a winner and a leader. So, gear up for a world of technology, knowledge and skilling because you are the leaders of tomorrow. We are facing challenges, but we are also facing it steadfastly. We are adjusting with the new normal during the time of pandemic, and it is the right time to start with a goal and create a network around you to achieve that goal."

The Orientation Programme is devoted to familiarizing the new students with the academic regulation framework, examination system, teaching-learning environment that the university offers, research opportunities and community outreach programmes specially designed to sensitize the students with the needs of the society and community around.

Vote of Thanks was delivered by Prof. Vikas Madhukar, Dy. Pro VC, AUH. The institutions of AUH also in their pre-recorded messages welcomed the freshers on the auspicious occasion of the beginning of the academic session. A unique feature of the inaugural session was the screening of the clippings / posters of select webinars with eminent dignitaries like Nobel Peace Laureate His Holiness Dalai Lama, Nobel Laureate Kailash Satyarthi, Nobel Laureate Muhammed Yunus, Padma Vibhushan Dr. RA Mashelkar, Padma Bhushan Mrs. Kiran Mazumdar Shaw, and Padma Shri Shovana Narain.

Expressing her great delight at the online orientation programme, Shalini, 1st year student, AIBAS, AUH, said, "Starting from the virtual tour to the talks delivered by the guests, I loved every part of the orientation programme. I am looking ahead to know more about my university in the coming days of orientation ceremony."

In the afternoon session the Amity Institute of Behavioral Science conducted Psychometric Profiling of the freshers under Dr. Rajesh Nair, Director, AIBAS; Dr. Vikas Sharma, AICP, and team. The freshers were also introduced to Student Clubs and Student Societies at AUH by Maj. Gen. G S Bal (Retd.), Dean of Student Welfare and were encouraged to take full advantage of the cultural activities conducted throughout the year.



INDO-ITALIAN ROUNDTABLE DISCUSSION ON INNOVATION AND TECHNOLOGY FOR ECOSYSTEM RESTORATION AND CLEAN ENVIRONMENT



Amity School of Earth and Environmental Sciences, Amity University Haryana, celebrated World Environment Day on 5th June 2021 by organising an online webinar and panel discussion with eminent speakers in the field of agri-environmental technology and climate change and food security to inspire young minds and ignite the spark of research and innovation in them. This year, the theme of World Environment Day was 'Ecosystem Restoration'. The webinar was presided by Hon'ble Chancellor of AUH, Dr. Aseem K Chauhan,

and was attended by a number of senior faculties and scientists from other Amity campuses as well as different organisations. Professor I S Thakur, Director, ASEES and Dr. Kushagra Rajendra, Head, ASEES, welcomed everyone with a brief introduction about the programme and its speakers. The Session was then enlightened up by the motivating words of Prof. Dr. Padmakali Banerjee, Pro Vice Chancellor, AUH, wherein she expressed her delight of celebrating Environment Day in the AUH campus. The opening remarks was given by Prof. (Dr.) P B Sharma, Vice Chancellor, AUH with the objective to raise awareness towards the importance and benefits of sustainable development.

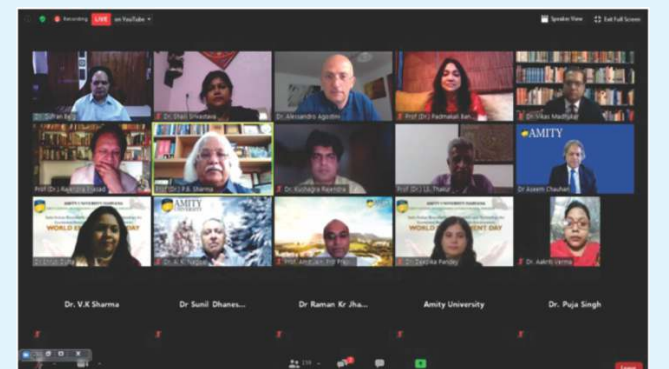
Dr. Vinod Kumar Sharma, Senior Scientist, Division for Bioenergy, Biorefinery and Green Chemistry, Italian National Agency for New Technologies, Energy and Sustainable Economic Development (ENEA) delivered an engaging lecture on: Renewable Energy Technologies at the Crossroads of Global Energy Grids. He represented ENEA and explained the research priorities and mission issues of ENEA.

Dr. Alessandro Agostini from ENEA - Centro Ricerche Casaccia, Rome, Italy, delivered the Keynote lecture on: "Innovations in Agrivoltaics for crop

production, energy generation and climate change".

Dr. Himanshu Pathak, Director, ICAR - National Institute of Abiotic Stress Management, Baramati, Maharashtra, India spoke on the topic of "Climate Change and Food Security in India."

Prof. Gufran Beig, Indian Institute of Tropical Meteorology, Pune, gave an enthralling lecture on: "Drivers of air quality and climate change in Indian mega cities."



AMITY SCHOOL OF ENGINEERING AND TECHNOLOGY ORGANISED GUEST LECTURE ON TECHNICAL INTERVENTIONS IN RURAL AREAS THROUGH UNNAT BHARAT ABHIYAN FOR LIVELIHOOD FOR ATMANIRBHAR BHARAT



**Webinar on
TECHNICAL INTERVENTIONS IN RURAL AREAS
THROUGH UNNAT BHARAT ABHIYAN FOR
LIVELIHOOD FOR ATMANIRBHAR BHARAT**

Tuesday, 1st June 2021 | 11 AM - 12 NOON

SPEAKERS



Prof. (Dr.) V K Vijay
Distinguished Speaker, IREDA
Chair Professor, Centre for Rural
Development & Tech., IIT Delhi



Prof. (Dr.) Padmakali Banerjee
Pro Vice Chancellor,
Amity University Gurugram

MODERATOR



Dr. Reena Nigam
Associate Prof. & Head,
Amity Skills Institute



Dr. Anil Yadav
Associate Prof. & Head, Deptt. of
Electronics & Communication, ASET



Prof. (Dr.) Subhra Das
HOD, Solar Deptt.,
ASET

REGISTER NOW

Amity School of Engineering and Technology organised a Guest Lecture on technical interventions in rural areas through Unnat Bharat Abhiyan (UBA) for Livelihood for Atmanirbhar Bharat on 1st June 2021.

Prof. Virendra Kumar Vijay, IREDA Chair Professor, Centre for Rural Development and Technology, IIT Delhi, delivered his talk on the need for self-reliance and the need for India to move towards Atmanirbhar Bharat. He then gave a complete overview of UBA.

He mentioned that UBA is inspired by the vision of transformational change in the rural development processes by leveraging knowledge institutions to help build the architecture of an inclusive India.

The Mission of Unnat Bharat Abhiyan is to enable higher educational institutions to work with the people of rural India in identifying development challenges and evolving appropriate solutions for accelerating sustainable growth. It also aims to create a virtuous cycle between society and an inclusive academic system by providing knowledge and practices for emerging professions and to upgrade the capabilities of both the public and the private sectors in responding to the development needs of rural India.

The goals of UBA are to build an understanding of the development agenda within institutes of higher education and an institutional capacity and training

relevant to national needs, especially those of rural India; to re-emphasize the need for field work, stake-holder interactions and design for societal objectives as the basis of higher education; to stress on rigorous reporting and useful outputs as central to developing new professions; to provide rural India and regional



agencies with access to the professional resources of the institutes of higher education, especially those that have acquired academic excellence in the fields of science, engineering and technology, and management; to improve development outcomes as a consequence of this research; to develop new professions and new processes to sustain and absorb the outcomes of research and to foster a new dialogue within the larger community on science, society and the environment and to develop a sense of dignity and collective destiny.

Total 89 faculties and 10 PhD scholars participated in this session.

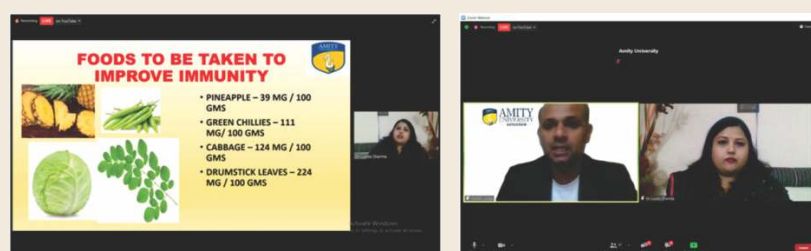
WEBINAR ON HOW TO BOOST YOUR IMMUNITY AGAINST CORONA VIRUS

Amity Medical School, Amity University Gurugram, organised an online lecture on How To Boost Your Immunity Against Corona Virus on 10th May 2021.

The webinar was moderated by Mr. Sachin Juneja, Director- Market Promotions, Amity University Haryana and the lecture was delivered by Dr. Luxita Sharma, Associate Professor & Officiating Head, Amity Medical School & Head, Dept. Of Dietetics & Applied Nutrition.

She talked about the role of diet, nutrition, exercise and mental wellbeing in combating COVID-19 and ways in which one can boost one's immunity. She also cleared doubts regarding common myths and scientific studies done related to COVID-19. Overall, the session educated the participants about right lifestyle practices to manage the COVID-19 pandemic and to reduce the stress level in this bad time.

The participants asked various queries related to common myths, nutrient supplements and much more from the expert. It was indeed a very informative session for all the 148 students who participated in it.



DEVELOPING CHATBOT USING DIALOGFLOW AND UiPath

Amity School of Engineering and Technology organised a webinar on Developing Chatbot using Dialogflow and UiPath by Dr. Sunil Sikka, Associate Professor, Amity University Haryana on 17th May 2021.

The main objective of the event was to make students aware about the concepts of chatbot and impart knowledge about softwares like UiPath. He also informed about the several frameworks which are available for developing chatbots such as Google Dialogflow, Microsoft Bot, Amazon Lex, Rasa, Wit.ai, Botpress etc.

He elaborated that Dialogflow is backed by Google and is the most widely used tool to build Actions for more than 400M+ Google Assistant devices. It is probably the best tool to build omnichannel chatbots with less coding. It provides the REST API which can be used to integrate the chatbot to your own application or with custom conversational interfaces. UiPath is a robotic process automation tool for large-scale end-to-end automation. For an accelerated business change, it provides solutions for

businesses to automate routine office activities. It uses a variety of methods to transform tedious tasks into automated processes, he explained.

Further elucidating the concept of Robotics, he specified that UiPath is used to automate repetitive digital tasks normally performed by human being. The technology emulates how humans read computer screens (AI Computer Vision) with APIs, and gives users access to pre-built automation components that can be combined to automate routine processes.

Total 101 students attended the session.



FACULTY ENRICHMENT PROGRAMME ON COMPUTATIONAL METHODS FOR ARTIFICIAL INTELLIGENCE, MACHINE LEARNING AND BLOCKCHAIN TECHNOLOGY

Amity School of Engineering and Technology organised a webinar on Computational Methods for Artificial Intelligence, Machine Learning and Blockchain Technology' between 5th – 9th July 2021.

The main objective of the event was to enhance the practical knowledge of the faculties on computational methods used for Artificial Intelligence. It also provided opportunities to them to learn the basics of emerging trends and challenges in the fields of computing and security and to further improve security ability while carrying out research testing and consultancy in computational techniques

Dr. Munish Jindal, Founder & CEO of Hover Robotix and Founding President of MENTORx delivered his talk on Artificial Intelligence and Machine Learning: Transforming Academia to Industry.

Dr. Munish Jindal enlightened the participants about use of AI in day-to-day life and the future of AI and specified following points:

- AI is changing the world. AI is being used in personality checking based on selfie photographs to ordering food based on past orders.
- AI has numerous applications in the fields of agriculture, healthcare, banking, education, online shopping etc. Image Analysis, Virtual Assistants, and Predictive Analysis are few trending areas.
- Smartwatch is an example of AI which is used to monitor the health of the human by recording heartbeat, footsteps etc.
- Autonomous Tractors and Agriculture Robots are another example of AI in the field to agriculture for irrigation, seeding, and taking care of plant health.
- Robodogs for enforcing social distancing and Humanoids are other achievements in the field of AI.

Dr. Vikas Thada, Associate Professor, Amity University Gurugram, delivered his talk on Machine Learning based web apps.

Mr. Ashutosh Kumar, Global Technology Services, IBM, Noida, delivered his talk on 'Computer Visions: The Evolution and Emerging Trends'.

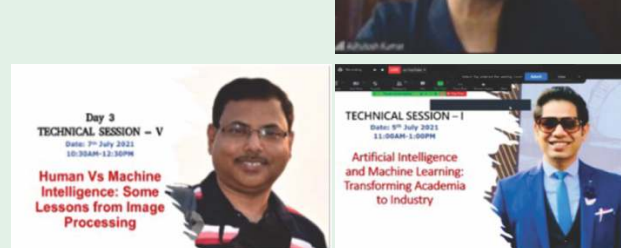
Dr. Sandeep K Panda, Associate Professor, ICFAI University, Hyderabad, delivered his session on: 'Blockchain Technology: Applications and Challenges'.

Dr. Karunesh Arora, Sr. Director (SNLP), C-DAC Noida, delivered his talk on Natural Language Processing.

Prof. Pradeep K Das, IIT-Guwahati, delivered his talk on 'Human Vs Machine Intelligence: Some Lessons from Image Processing'.

Dr. Ruchika Malhotra, Professor, Delhi Technical University delivered her talk on 'Empirical Software Engineering: Analysing Experimental Data and Future Directions'.

Dr. Sunil Sikka, Amity University Haryana, delivered his talk on Robotic Process Automation in Action.

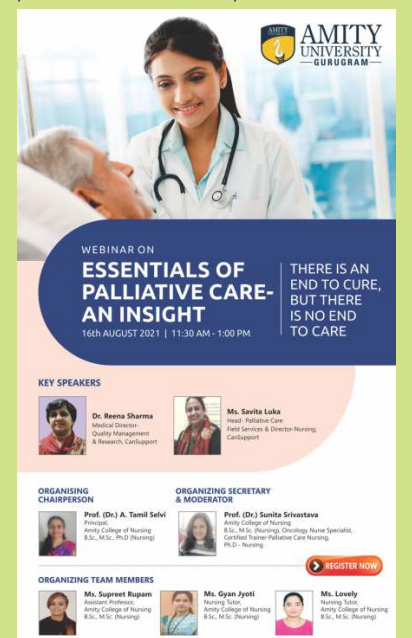


WEBINAR ON ESSENTIALS OF PALLIATIVE CARE – AN INSIGHT

Amity College of Nursing organised a webinar on Essentials of Palliative Care – An Insight on 16th August 2021.

The main objective of the webinar was to inform the audience about the practical aspects of palliative care and explain the scope of palliative care in nursing courses.

Dr. Reena, Medical Director, Quality Management & Research, Can Support, is an expert in palliative care and has pursued National Fellowship Palliative Medicine from IPM, Khozhikode. Ms. Savita Luka, Head of Palliative Care Services, Can Support talked about the introduction, symptoms, and management of palliative care patients; counselling and referral services provided to the patient and family members; the various field activities and the volunteers' and workers' role in patient care in home setting and in hospice. They also explained the outreach activities carried by Can Support.



EDUCATIONAL TOUR FROM DELHI TO LEH LADAKH

The genesis of the tour was sparked by a letter from the Border Road Organisation (BRO) inviting University students to visit the Atal Tunnel to behold one of the latest additions to our great nation's journey towards scaling new heights in the realm of science and technology, in keeping with our Hon'ble PMs resolve and vision of a "AtmaNirbhar Bharat".

On August 03 we started our adventurous and challenging journey by road from Manali to Leh via the Atal tunnel. The construction of Atal Tunnel has scripted a story braving multi-dimensional complexities.

Atal Tunnel, Rohtang, in India, is the longest road tunnel in the world at 3,000m, or, 10,000 ft above sea level. A project of Border Roads Organisation (BRO), the tunnel was constructed by Strabag-Afcons Joint Venture (SAJV). Strabag is an Austrian company with its headquarters in Vienna, and Afcons is a part of India's leading engineering conglomerate, the Shapoorji Pallonji Group. Mr. Sadiq, an engineer of the Turkish Coy Savranik (contracted for the maintenance of the tunnel) was deputed to give us a detailed walk through and briefing of the tunnel. In all the visit lasted 2 hours. During the visit the

students were briefed about:

- (a) Historical perspective of the construction of the tunnel.
- (b) Technologies used for construction and difficulties faced during the construction stage.
- (c) The ventilation system of the tunnel.
- (d) Escape tunnel and procedure for extraction from the tunnel in case of an emergency.
- (e) The elaborate security apparatus and the 850 CCTV cameras monitoring system.
- (f) Extraction of vehicles in case of breakdown within the tunnel.
- (g) Quick reaction by the police force in case of a terrorist attack.

Over all, the visit to Atal Tunnel was both educative and awe inspiring.



The following members were part of the team:

Participant's Name: Ms. Deepika Arya
School: Optometry
Programme: B Optometry

Participant's Name: Mr. Hridyansh Vaid
School: ASH
Programme: BHM

Participant's Name: Mr. Lakshya Mall
School: ASET
Programme: BTech+MTech

Led by - Maj. Gen. (Retd.) GS Bal, Dean of Student Welfare | Dr. Ranjana Kothari, Deputy Dean of Student Welfare

YOG SAPTAH: 5 DAYS' MORNING YOGA WORKSHOP

On the occasion of the International Yoga Day, Amity School of Liberal Arts, Amity University Haryana organised a workshop on Yog Saptah: 5 days' Morning Yoga between 22nd to 26th June 2021 by Mithilesh Bhakare, Assistant Professor, Kavikulaguru Kalidas Sanskrit University, Ramtek, Maharashtra and Rashmi Jain, Research Scholar from the same University. In the opening ceremony, Dr. Kalapini Agasti, Head, Dept of Yogavijnan, Kavikulaguru Kalidas Sanskrit University, briefly stated about the yoga workshop and about the Dept. of Yogavijnan. He emphasized that Yoga is a way to exercise our bodies, our breath, and our minds at the same time. On the second to fourth days of the workshop, Mithilesh Bhakare and Rashmi Jain taught participants



how to perform the various stretching poses, practice meditation and promote mindfulness in addition to overall wellbeing. On the fifth day of the workshop, Rashmi Jain taught yoga and gave lessons in Prayanam.

AMITY INNOVATION INCUBATOR: NURTURING STARTUP DREAMS

07

Entrepreneurship Ecosystem in Higher Education Institutions



Prof. (Dr.) Vikas Madhukar

Dy Pro Vice Chancellor, Amity University Haryana
Dean - Faculty of Management Studies
Director - Amity Business School

Entrepreneurship is a crucial element for each country that aims to be competitive and developed within the knowledge-based world economy. It contributes to job creation, innovation, social inclusion, and allows marginal groups to become active economic actors and promotes equal opportunities for women. Higher Education Institutions (HEI) have a great role to play in the development of entrepreneurship, being part of an overall entrepreneurial ecosystem with business and government. The 'Startup India' programme of the Government of India, which was launched on January 16, 2016, has put special emphasis on 'industry academia partnership' and incubation support and is one of the key agendas of overall startup action plan in the country. In line of Startup India plan, Ministry of Human Resources and Development has issued 'National Innovation and Startup Policy 2019 for Students and Faculty'. This framework provides ways to Indian HEIs for developing entrepreneurial agenda, managing Intellectual Property Rights (IPR) ownership, technology licensing and equity sharing in Startups or enterprises established by faculty and students and eventually facilitates in creating an entrepreneurial ecosystem in higher educational institutions.

Therefore, the huge responsibility lies on universities and colleges that they must provide entrepreneurship education, develop and adapt competencies, skills, disseminate knowledge, technology and increase economic development as well as help students to create new firms and provide the adequate set of training to manage them across their life cycle. As rightly pointed out by Peter Drucker (1985) that entrepreneurs can be made and it has nothing to do with the genes, like any other disciplines, entrepreneurship can be taught, and entrepreneurial perspective can be developed in individuals.

Developing an entrepreneurial ecosystem in HEI typically involves the following key points:

- #1: Clear Vision, Strategy and Policy on Start-up & innovation by HEI
- #2: Start-ups Enabling Institutional Infrastructure such as pre incubation and incubation facilities for students and faculty
- #3: Programmes and Courses on entrepreneurship as a part of curricular, co-curricular and extracurricular activities with strong mentorship support
- #4: Ensure faculty participation and involvement
- #5: Pedagogy and Learning Interventions for cross disciplinary learning and Entrepreneurship Development
- #6: Creating Innovation/Startups Pipeline and Pathways for Entrepreneurs through various networking events, such as idea and innovation competitions, hackathons, workshops, bootcamps, seminars etc.

#7: Regular monitoring, review, and follow-up to measure the outcomes for overall impact assessment

It is important that the HEI Innovation & Entrepreneurship policy must integrate entrepreneurial activities across various institutions and departments and should be instrumental in the development of entrepreneurship culture within the institution and its vicinity. Importance of innovation and entrepreneurial agenda to be made known across the institutions and should be promoted and highlighted on all prominent platforms. The focus should be on targeting the larger pool of students rather than to keep welcoming only those who are interested. Lack of self confidence among students may pose a hindrance in attracting many participants but this should be overcome by designing a system and culture which should encourage them to come forward, boost their confidence and help them in overcoming their fear of failure. It is also important that the scientific and technological capabilities developed by faculty and students should be commercialized in the market through new firms, patents, licenses or other contractual arrangements. The promotion of entrepreneurship demands an entrepreneurial ecosystem where HEI plays a crucial role in collaboration with other stakeholders, namely governments (central and local), business associations, entrepreneurs, NGOs, service providers, financial institutions, incubators, and several others.

REAL ENTREPRENEUR, REAL STORIES: FRIDAY FORTNIGHT



Mr. Arun Bhati,
Founder, ORahi

Mr. Arun presented his Startup Orahi, a ride sharing app, specially developed for office-goers, so that people can make the most of the time that they spend commuting to office and back.



Ms. Parul Mehta,
Founder, Resercho

Ms. Parul presented her Startup - Resercho, an academic networking website and app, a platform where students, teachers & other professionals can upload their academic work such as their notes, assignments, projects etc.



Mr. Vinamra Mittal,
CEO and Co-Founder,
Stealth Mode

Mr. Vinamra presented an overview of the startup - Stealth Mode. He also spoke about the values of entrepreneurship.



Prof. (Dr.) Rajesh Nair, Director, Amity Institute of Behavioural & Allied Sciences (AIBAS), AUH, has received a Consultancy project from Public Health Foundation India (PHFI) w.r.f. 1st August 2021. The project is supported Bill & Melinda Gates Foundation (BMGF) and MoHFW, Govt.

Project ADARSH to 'Design and scale up of alternate models for responding to the critical shortage of medical specialists in select states' is getting implemented in the states of Odisha, Haryana, Gujarat, Uttar Pradesh, Bihar, Punjab, Meghalaya, Karnataka and Jharkhand. The district level academic models are conducted by DNB (Diplomat of National Board) under National Board of Examinations (NBE), MoHFW, Govt and College of Physicians & Surgeons (CPS), Mumbai to start post graduate degrees/ diplomas at District Hospitals.

This project is a step towards implementing the initiatives of the National Health Policy 2017.

There is an immense latent potential in utilising District Hospitals (DHs) as sites for training medical specialists which can lead to the acquisition of a formal higher education qualification as a specialist. ADARSH project aims to increase the production of specialists through adoption of alternate models for responding to the critical shortage of medical specialists. The participating DHs will witness a strengthening of their capital infrastructure as well as the staffing of specialists. The presence of Post-Graduate trainees around the year will have a domino effect that may lead to higher utilisation/ access of healthcare services.

LEADING ACADEMICIAN, PROF. TARUN KHANNA FROM HARVARD BUSINESS SCHOOL, FELICITATED AT AMITY UNIVERSITY

Amity University Haryana, Gurgaon (AUG) felicitated Prof. (Dr.) Tarun Khanna, Jorge Paulo Lemann Professor, Harvard Business School; and Director, Lakshmi Mittal & Family South Asia Institute, Harvard University, USA in a glittering online webinar organised on 22nd April 2021 for his distinguished contribution. Prof. (Dr.) Tarun Khanna gave a special talk on the topic 'Cultivating Trust Can Unlock India's Potential'.

Vice-President- RBEF and Director- International Affairs, Prof. (Dr.) Gunjan M Sanjeev welcomed the Guest Speaker Prof. (Dr.) Tarun Khanna, who is also a nominee for Young Global Leader (under 40) in the past by the World Economic Forum, and other senior officials of Amity University and all the participants.

While delivering his welcome address Vice Chancellor of AUH, Prof. (Dr.) P B Sharma emphasised the need for creating a scientific mindset embedded with enterprising spirit to unleash the enormous potential of mass-entrepreneurship in India.

Subsequently, the felicitation ceremony was conducted in which the ceremonial citation was presented virtually to Prof. (Dr.) Tarun Khanna.

Prof. Khanna expressed his gratitude for such honour. In his keynote presentation Prof. Khanna described in great details about how investing in trust is beneficial and the four important points for the entrepreneurship i.e Food, Dignity, Talent and Ideas.

He stated that entrepreneurs with great ideas in developing countries need to evolve frameworks of trust which would create positive societal impacts and bring commercial benefits as well. He cited case studies of "Wondermilk" in China and "BRAC" in Bangladesh and elaborated how startups got

successful by developing an ecosystem of trust around their commercial operations. He also talked about how start-up firms like Aspiring Minds harvested the need of sound trustworthy ecosystem as a business opportunity which worked creatively to match talent with job requirements using most modern technology and AI tools. Prof. Khanna also touched upon the need to eliminate mistrust between scientists and entrepreneurs so that a free flowing collaboration could happen to bring societal benefits. "We should work on unlocking the scientific potential to allow free flow of ideas to generate creative solutions to the societal problems," opined Prof. Khanna.

The occasion also celebrated the publication of the book "Trust" authored by Prof. Tarun Khanna in which budding entrepreneurs from different emerging economies- Bhutan, India, Nepal, and Sierra Leone amongst others shared their stories on how this book helped them in their entrepreneurial journey and improved their business prospects and how this book is a must-read for all entrepreneurs.



FACULTY DEVELOPMENT PROGRAMME ON INDIAN HERITAGE MANAGEMENT

Amity School of Hospitality organised a Faculty Development Programme on Indian Heritage Management between 5th – 9th July, 2021.

The main objectives of the event were to make the participants aware of the purpose of a heritage management system.

The Speakers of this FDP were:

- Prof. Prashant Gautam**, Professor, UIHTM; Dean, Faculty of Tourism and Hospitality, PU; and Director, Sports, PU.
- Prof. Ashish Dahiya**, Professor-Hotel & Tourism Management; Director, Centre for Life Skills & Soft Skills, MDU-Rohtak.
- Mr. Anil Oraw**, Regional Director (North), India Tourism, Delhi.

Prof. Prashant Gautam focused on Digital Heritage to be included in the coming times. He explained Indian Heritage with the help of stories, traditions, and the culture of the country.

Prof. Ashish Dahiya focused on prevailing practices in Heritage Management. He focused on connecting people and lifestyle, identification of best practices, involvement of national agencies and other stakeholders in heritage management.

Mr. Anil Oraw shared his practical experience with the participants. He focused on community participation and their involvement in Heritage Industry. He also highlighted the problems of the people who are involved in promoting local heritage.

Dr. Ruchika Kulshrestha, FDP Co-ordinator, took the participants on to a throwback journey of 5 days in 5 minutes.

Prof. Paramita Suklabaidya, Director, SoTHMS, IGNOU focused on current Indian Heritage Management and what new can be done.

Prof. Sandeep Kulshreshtha, IITTM, Gwalior focused on guide training for heritage monuments.

Mr. Ravi Gosain, Vice President, IATO, gave insights on Heritage Monuments and its various ways to conserve and protect them.

Mr. Arunangshu Bhattacharya, Dy. Director, Amity School of Hospitality, also gave his thanks to the speakers and participants for attending the event.

The last day of the five-day FDP concluded with a vote of thanks given by Dr. Kunal Seth, Professor, Amity School of Hospitality, Amity University Haryana. Total 189 students and 11 faculties attended the session.



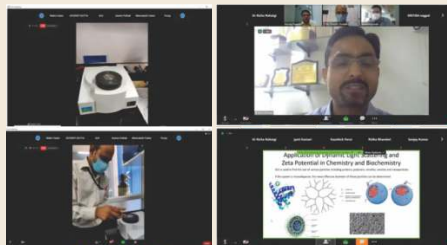
THREE DAY NATIONAL WORKSHOP ON MATERIAL CHARACTERIZATION TECHNIQUES

Amity School of Applied Sciences organised workshop on Material Characterization Techniques between 3rd -5th August 2021.

The main objective of the workshop was to impart basic and practical knowledge about the advanced tools used for material characterization to the research scholars, teachers, and scientists; and to discuss, analyse and acquire experimental knowledge in the area of Material Characterization using Dynamic Light Scattering, Thermogravimetric Analysis-

Differential Scanning Calorimetry and UV VIS Spectroscopic Techniques.

Dr. Sudip Majumder, Dr. Chander Shekhar, Dr. Dipti Vaya, Dr. Anurag Sharma, Dr. CM Srivastava and Dr. Manish Shandilya, Assistant Professor's of Amity University Haryana, explained the concept of Dynamic Light Scattering and Zeta Potential, Thermogravimetry and UV-Visible spectrophotometer and their applications in the various fields of science. Total 95 students and 11 faculties attended the session.



INNOVATIVE ENGINEERING

AMIPI HUMANOID ROBOT

S. Kiran, I. Pavan Raju - M.Tech (AIR), Batch: 2018-20



IOT MINING WORKERS SAFETY HELMET

Ayush Dagar, Sista Sowmya Laxmi - B.Tech (ECE), 8th Sem, Batch: 2017-21



IOT BASED SMART DUSTBIN

Deepanshu Verma, Pawan Kumar Yadav
R. Hemanth Reddy, B.Tech (CSE) 6th Sem, Batch: 2018-22



MEDICINE DRONE

Nitesh Raj, Technical Associate (Centre of Robotics & AI)



360 ROTATABLE CAR: Abhayjeet Kaler, Praveen Kumar,
Deepanshu Verma, Md Sahnawaaz Hussan, Shivam Joshi,
B.Tech (ME) 8th Sem, Batch: 2017-21



ARCHITECTURE & PLANNING

Cultural Center at Varanasi

Anurag Pandey, B.Arch, 2017-22



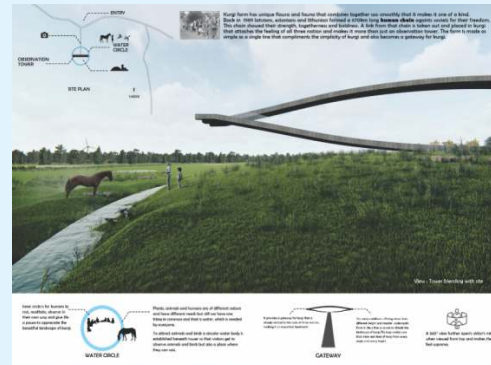
Innovation Center

Ankur Sharma, B.Arch, 2017-22



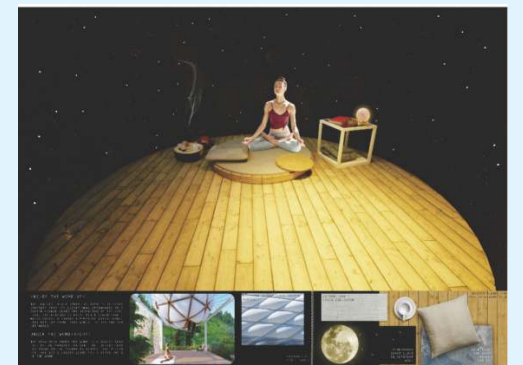
Kurgi Observation Tower

Ankur Sharma, B.Arch, 2017-22



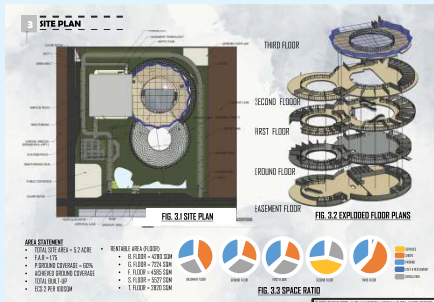
Womb 2.0

Ankur Sharma, B.Arch, 2017-22



Shopping Mall

Krishna Gupta, B.Arch, 2020



THREE-DAYS ONLINE WORKSHOP – URBAN RENEWAL AND CONSERVATION

Amity School of Architecture and Planning organised online workshop on Urban Renewal and Conservation between 1st-3rd July 2021 by Ar. Abhishek Jain, Urban Regeneration Expert based in Delhi. The main objective of the workshop was to assess the urban renewal/redevelopment approaches at old city and historical sites in the context of having better access to services and sustainable urban development.

Ar. Abhishek Jain interacted with the students on various dimensions of Urban Renewal and Conservation and also demonstrated various examples of urban renewal in many Indian cities. He explained various case studies and related cultural fabric in the planning of Indian historic old cities. He differentiated between various tasks like – regeneration, renewal, re-development, restoration, revitalization, re-densification, resettlement, rehabilitation, and land-recycling (in-fill development). He also emphasised upon the significance of mixed land use in Indian old cities.

He also explained that urban renewal refers to a set of plans and activities to upgrade old cities and neighbourhoods which are in a state of distress or decay or in a degraded condition. Urban renewal programmes address the physical aspects of urban decay. Urban Renewal functionally works because it stimulates a cycle of investments by removing the blighted conditions that act as barriers to new developments. He integrated Urban Renewal with urban heritage, cultural values, and urban design. He also threw light on the Conservative Surgery and Diagnostic Survey.

FINE ARTS CREATIVITY

1.



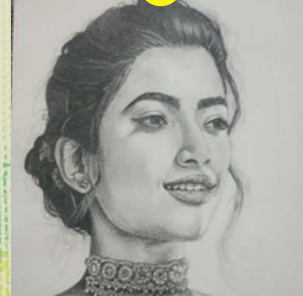
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3.



4.



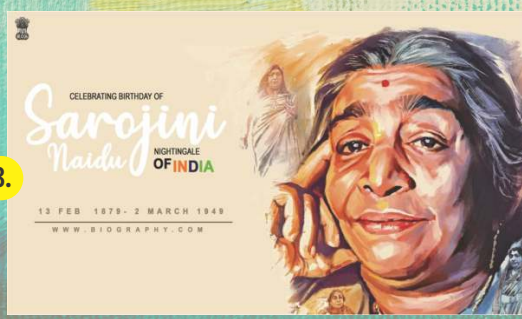
5.



6.



8.



7.



1. Mahasewata Biswas
BFA, SEM VIII
2. Nikita Negi
BFA, SEM VIII
3. Bibhu Ranjan Mohanty
BFA, SEM IV
4. Simran
BFA, SEM IV
5. Anurag Rao
BFA, VI SEM, 2018-22
6. Chinmaya Ligi Kumar
BFA, IV SEM, 2019-23
7. Ishika Goyal
MFA, IV SEM, 2019-21
8. Ritvik Dutt
BFA, VI SEM, 2018-22

AMITY BUSINESS SCHOOL, GURUGRAM HAS BEEN RANKED AMONGST TOP 20 B-SCHOOLS OF NORTH INDIA 2021



CORPORATE CONNECT

09

CAPACITY BUILDING TO SECURE OUR CYBER FUTURE



Col. Inderjeet Singh
Chief Cyber Security Officer
VARA Technologies Private Limited

With the ongoing digital revolution, world has been brought closer. Inter and hyper connectivity of the network brings the power of connecting more users and bringing them on board, in a secure way. The utmost benefit of the new digital world is interconnectivity, however, at the same time we are living in VUCA (Volatility, Uncertainty, Complexity and Ambiguity) world, which entails that businesses must seek new orientations and renew methodologies of doing business.

We are seeing digital transformation at the forefront of all company's digitisation plan. In addition, development and deployment of emerging technologies such as 5G, Internet of Things (IoT) and Industrial Internet of Things (IIoT) are happening at a much faster pace than expected. By 2025, number of IoT devices is projected to reach approximately 75 billion globally, or at an average of eight IoT devices for every man, woman and child on this planet. This significantly enhances the attack surface for hackers to launch malicious Cyber activities.

Growth in connectivity and convenience for millions around the world is also

causing the risk of being mired in a contestation for digital dominance in Cyberspace. All the digital interactions are always under threat from Cyber attackers – both sophisticated state sponsored and non-state actors, and highly capable criminal groups, who seek to disrupt and exploit these data flows and our digital systems. Two challenges – digital dominance and Cyber security are reasons for tension between nation states for supremacy in the Cyberspace.

As the Cyberspace is getting blurry, impact of Cyber-attacks are usually transcending boundaries i.e. attacks are often carried out from outside the territory of the nation that has been attacked. While countries focus on protecting their own critical information infrastructure systems, there are also information systems that all countries depend on for cross-border and international transactions which are to be secured. These supranational systems span many countries and jurisdictions. Some of these established through agreements among participating nations or companies, while others may be private sector built, owned and operated, but used by many nations.

In the VUCA world, 21st Century Cyber Challenges require 21st Century solutions, amidst escalating numbers of sophisticated Ransomware, APT, and Malware attacks. Bringing in robust security and stability to cyberspace would require new and different strategies compared to what have worked in

other domains of conflict, and collaboration across disciplines. Some of the areas that we should focus on are:

- Readiness to address existing and potential Cyber Threats.
- Formulate International Law in Cyberspace.
- Strategy to respect human rights in Cyberspace.
- Foster Cyber Security Capacity Building.

Number of cyber-attacks are spirally increasing. However, there is a shortage of cyber security skillset and experts in the workforce. Improving the cyber training initiatives at each level of our education system can enable us to scale our Cyber workforce to meet the market demand. Today, the competition to hire qualified Cybersecurity professionals with skills in areas like Digital Forensics, Cloud Security, Operational Technology Security, SecOps, DevOps, and Virtualization is intense. With the paucity of right skillset and talent, Cyber professionals are valued at a premium by employers.

Whether academia, non-profit organisation, industry or government, all have a stake in protecting a nation's information infrastructure. It is imperative that all must work together and strategise to ensure a robust pipeline of Cyber professionals that the country needs to endure and overcome the Cyber challenges.

For students, who want to pursue Cyber security as their career option, have the opportune time to get on the Cyber security professionals bandwagon.

SUCCESS STORIES OF AMITY: A SESSION WITH ALUMNI

Amity University Gurugram organised a session with alumni for the prospective students to let them have an experience & understanding of how Amitians are nurtured carefully to lead a successful life.

Mr. Sachin Juneja, Director, Market Promotions, moderated the session and asked questions related to engineering, AI and Machine Learning. He also asked questions related to placements criteria along with career aspects in AI, Data Science and Management.

Mr. Hareekrishna Ravichandran, AOP Programme Manager, Flipkart, an alumnus of Amity University Gurugram mentioned that extra courses along with curriculum courses are very important for good career growth.

Mr. Sankarshana Kadambari, Business Technology Analyst (Big Data), an alumnus of Amity Gurugram shared his experience with Corporate Resource Centre and also mentioned that he has written his own research paper during his graduation which helped him in getting his job.

Ms. Ruchi Kamra, Assistant Professor, Amity School of Engineering and Technology, explained the concept of AI and Machine Learning. She also emphasised that at Amity best infrastructure is provided to build one's career in Big Data, AI and Machine Learning.

Mr. Ankit Dhamija, Assistant Professor, Amity Business School, explained the concept of Study Abroad Programme and Global Study Programme at

Amity Gurugram to all the students which helps in getting dual benefit of getting degree from foreign universities along with global experience.

Mr. Manoj Sahani, Director, Corporate Resource Center and Mr. Ankur Gupta, Dy. Director, Corporate Resource Centre, mentioned the emerging career prospects in Big Data and companies coming to campus for recruitment like Amazon, Flipkart etc.

Total 152 students attended the session.




GUEST LECTURE ON 'RECENT ADVANCES IN THE QUALITY CONTROL OF HERBAL DRUGS'


Amity Institute of Pharmacy organised a Guest Lecture on 'Recent Advances in the Quality Control of Herbal Drugs' on 17th August 2021.

The main objective of the session was to make the students (B.Pharm / PhD) learn about the various techniques, tools, and methods required for herbal drug quality control.


Dr. Rajesh Kumar Verma, Principal Scientist, Dabur India Limited, the speaker of the session, touched upon the basics of herbal drug discovery and its quality control aspects, various industrial instruments such as HPLC, GC-MS, and ICP-MS which were commonly used for this purpose. He emphasized upon the various statutory requirements and market expectation for a herbal drug development; the constraints involved in the herbal drug development; and the regulatory aspects for herbal drug standardization among others.



AMITY UNIVERSITY
HARYANA



Amity Institute of Pharmacy



AIP Organizes a guest lecture on "**Recent Advances in the Quality Control of Herbal Drugs**" by Dr. Rajesh Kumar Verma, Principal Scientist, R&D, Dabur Research and Development Center, Dabur India Limited

Date: 17.08.2021,
Timing: 10.00 am-11.00 am,
Platform: MS Teams

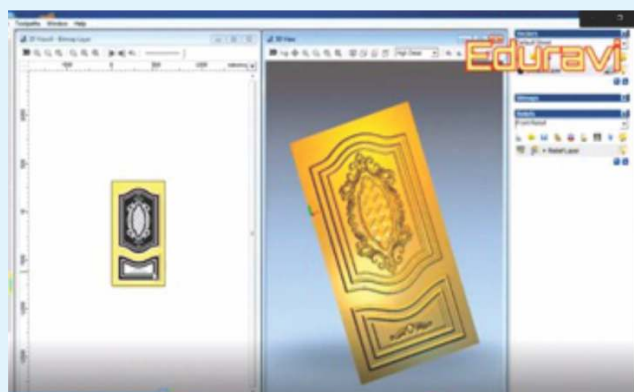
Resource Persons:
Dr. Arun Mittal, Mob-9354806431
Dr. Asim Kumar, Mob-9877385724
Mail id-akumar13@ggn.amity.edu

AMITY SCHOOL OF FASHION AND DESIGN TECHNOLOGY ORGANISED WORKSHOP FOR PAINT AND WOOD TYPE, MARKETING AND CLASSIFICATION OF PAINTS ON 13TH AUGUST 2021

Amity School of Fashion and Design Technology organised a workshop for Paint and Wood Type, Marketing and Classification of Paints on 13th August 2021.

The main objective of the event was to impart knowledge about the use of different types of doors and paints for interior execution and knowledge about on-site construction.

Dr. Sunit Sood, HoD, Amity School of Fashion Design and Technology; Dr. Ashok Biswas, Assistant Professor, Amity School of Fine Arts; and Ar. Rahul Mehta, Assistant Professor, Amity School of Architecture and Planning discussed about increased production, consumption and usage of paints in the Interior Design industry; budgeting of material and its selection; drafting techniques and design of woods in houses; and types of woods and paints, building material and construction in Interior Design.



GUEST LECTURE ON LEARNING AND SKILLING

A Guest Lecture on Learning and Skilling was organised by Corporate Resource Centre on 20th May 2021 for the students of Engineering and Management.

The objective of the event was to sensitise the aspiring managers and engineers about the adoption of technologies in the roles they aspire to assume in sync with industry requirements.

Ms. Indrani Choudhury started the session with her brief introduction on her career journey and explained how a non-STEM person can also grow in the career and be a part of the world's #1 technology company. She highlighted the various aspects of learning and how one can pick and choose certain technological certifications which are recognition of prior learning in a domain and therefore eases one's entry into any organisation. She also shared some certifications on AWS and Azure technologies for students.

It was a great session with enriching information. The industry insight and current situation were so well relatable that it made the session more interesting and interactive. Total 90 students and 5 faculties participated in the session.



AMITY SCHOOL OF FASHION AND DESIGN TECHNOLOGY ORGANISED A VIRTUAL TOUR OF KIRAN NADAR MUSEUM OF ART

Amity School of Fashion and Design Technology organised a virtual tour of Kiran Nadar Museum of Art on 11th August 2021.

The main objective of the event was to sensitise the students about the existing dearth of institutional spaces that could bring visibility to modern and contemporary art from India and the subcontinent. It provided an opportunity to them to learn about new art forms and techniques as well as benefit from their interactions with the artists who frequently head these programmes.

The retrospectives are a celebration of the lives of seminal modernist artists by highlighting important moments from their careers. The focus on a singular artist allows the public to recognise their relevance and trace significant trajectories in the history of Indian art post-independence. The virtual tour offered a glimpse into the creative process of the artists, their personal struggles and aesthetic sensibilities that were constantly evolving. Diaries, sketches in notebooks, photographs and lesser-known works were displayed to draw out these intrinsic details. Furthermore, lectures and symposiums were held to offer a deeper understanding behind the works and lives of these artists.



AMITY LAW SCHOOL, GURUGRAM HAS BEEN RANKED AMONGST TOP 20 COLLEGES OF NORTH INDIA 2021



HAPPENINGS 10

WEBINAR ON PUBLIC HEALTH: IMPACT OF NURSING PRACTICE ON THE HEALTH OF HUMANITY DURING COVID19 PANDEMIC

Amity College of Nursing, Amity University Gurugram organised an online lecture on Public Health: Impact of Nursing Practice on the Health of Humanity during Covid19 pandemic on 28th May 2021.

Dr. Kandaswamy Muthugounder, Professor cum Principal, Dharan Nursing College, Salem, Tamil Nadu, discussed about 'Evolution of Nursing Science – Future Directions and Strategies for Success' during the event.

Dr. Kandaswamy excellently provided relevant information on the topic. He also satisfactorily answered the questions raised by the participants regarding the future directions and strategies for success in Nursing Science and how it connects with the broader context.

Dr. Rajeev Reghunath spoke on the topic 'Affective domain of nursing, history of pandemic and art'. Dr. Rajeev Reghunath splendidly provided engaging information on topics such as 'Endemic to Pandemic, Features and Control of Pandemic and Containment History of all Pandemic Diseases which are Circa, Plague of Athens, Antonine Plague, Plague of Cyprian, Plague of Justinian, The Black Death, Cocoliztli Epidemic, American Plagues, Great Plague of London, Great Plague of Marseille, Russian Plague, Philadelphia



Yellow Fever Epidemic, Cholera Pandemic, American Polio Epidemic, Spanish Flu, Asian Flu, AIDS Pandemic and Epidemic, H1N1 Swine Flu Pandemic, West African Ebola Epidemic, Zika Virus Epidemic and COVID 19.

Dr. Jaeny Kemp resplendently talked about the topic to combat COVID 19 with levels of prevention approach with the noteworthy discussion on health promotion, specific protection, early identification, prompt treatment, rehabilitation and restoring to normal condition after Covid 19. Dr. Kemp answered all the questions raised by the participants with relevant examples.

Dr. Prabhavathi S spoke on "From Exhaustion to Extraordinary: Strategies to Reverse Nurse Fatigue." Dr. Prabhavathi excellently talked about the topic with prominent discussion on exhaustion, fatigue, stress and common causes and its effects on brain and body. Emotional signs of exhaustion and impact of exhaustion on work and patients was also addressed. Dr. Prabhavathi also explained the concepts of reversed fatigue and enhanced energy.

Total 205 students from nursing attended the engaging session.



AMITY SCHOOL OF FINE ARTS ORGANISED ART TALK ON 'A JOURNEY... FROM GRAPHIC DESIGNER TO A PAINTER & SCULPTOR'

Amity School of Fine Arts organised an Art talk on 'A journey... from graphic designer to a painter & sculptor' by eminent painter and sculptor, Mr. G Subramaniam, Professional Artist on 11th June 2021.

The main objective of the talk was to acquaint the students with the knowledge of art and to encourage self-expression and creativity that can build confidence as well as a sense of individual identity in students.

He introduced the situation of transformation of art forms and how an artist survives during this situation. He enlightened on how to find answers to these questions and more from the key report on effective collage painting technique. He talked about how he started working on images of Gods, Goddesses, parrots, flowers like the lotus and the smiling face of his daughter and how these always find a place in his art.

The mythological images like Buddha, Ganesha, Krishna and Saraswati come from his childhood memories growing up in the coastal village listening to mythological stories narrated by the elders. His daughter loved birds and the parrot is her favourite, that's why all his paintings depicted one. The inspiration and spark behind his art is the smile of his daughter. For him texture is very important and helps him connect with the viewers. He wanted the person looking at his art to not only understand the emotion behind it but to also feel it.

Total 44 students and 7 faculties attended the session.



WORKSHOP ON UPLC AND SPECTROSCOPY

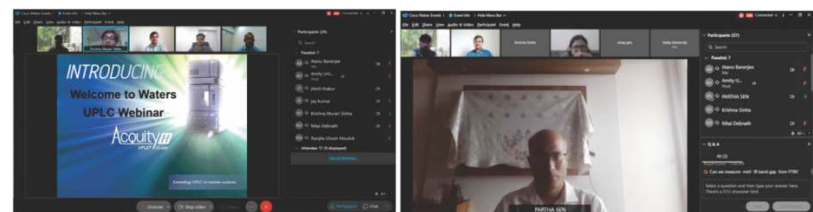
Amity Institute of Biotechnology, Amity University Haryana, organised a workshop on UPLC and Spectroscopy on 16th June-22nd June 2021.

The main objective of the event was to introduce the students and the faculties to the state-of-the-art spectroscopy and UPLC equipments.

Mr. Partha Sen, Manager - Application, Agilent Technologies, the global leaders in the development of spectroscopy instruments, delivered his talk on the basics of spectroscopy. The workshop included introduction to the fundamentals of spectroscopy techniques including, UV-VIS, Fluorescence, FT-IR, and NIR spectroscopy as well as its applications. The speaker introduced the participants to the working principle of all the instruments. The company also committed to provide hands-on training sessions with all the Agilent spectroscopy equipments housed at the CIRF when the University reopens.

Dr. Suneel Kateriya of School of Biotechnology, JNU, and Dr. Sachin Dev Verma, IISER, Bhopal, provided a comprehensive overview of their research which is based on high-end spectroscopy. While Dr. Suneel applied the spectroscopic concepts in optogenetics and optobiotechnology, Dr. Sachin introduced a very new kind of microscopic/spectroscopic technique called pump probe spectroscopy and demonstrated its applications in semiconductor technology, photovoltaics and biology field as well.

Total 70 students and 18 faculties participated in the workshop.



WEBINAR ON 'GROWTH OPPORTUNITIES AFTER DOING MBA BUSINESS ANALYTICS'

Amity Business School organised a webinar on 'Growth Opportunities after doing MBA Business Analytics' on 22nd June 2021.

The main objective of the event was to have insights on the growth opportunities for MBA business analytics students after the completion of the degree.

Dr. Vani Aggarwal, Assistant Professor, Amity Business School delivered her talk on the concept of analytics, the types of analytics and the different tools of analytics. She also mentioned the top 5 reasons to go for business analytics and further explained why the highest paid jobs in India in 2021 and in 2025 and why it is so?

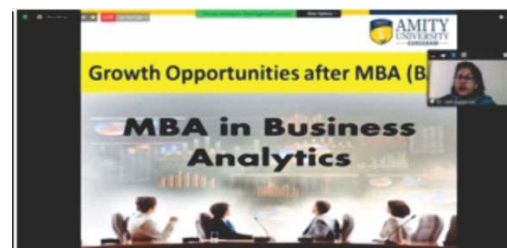
She elaborated on the availability of various career options



after doing MBA Business Analytics such as business analyst, management consultant, data scientist, data manager, programme manager, team leader, data analyst, market research analyst, financial analyst, HR analyst, and customer analyst etc.

Later, students asked questions about the difference between data science and business analytics; why should one join the course; is it worth to do MBA BA; is it a good option for stock market investors; after doing MBA business analytics is there a scope for supply chain; and what are placement and internship offers for students at AUH among others.

Mr. Sachin Juneja, Director, Market Promotions, AUH, concluded the session and thanked all participants.



POLE VAULTING – HUMAN RESOURCES



Over the last decade, we have witnessed a rise in data-driven decision making across all Universities and organisations, and HR is no different. In an effort to stay competitive in the modern and complex

business landscape, particularly during Covid19, we should leverage analytics to forecast our workforce requirements, monitor performance, growth and to better optimise revenues and reduce costs. By regularly analysing and monitoring employee performance and engagement metrics, HR can establish the gaps, determine the roadmap and draw-out strategic talent acquisition plan. It can also focus on Faculty Development, enrichment and resource management. Such outcome-based decisions would prepare the workforce for the unforeseeable challenges of future, particularly during post Covid19 scenario.

Rear Admiral Kishan K Pandey (Retd.) AVSM, VSM, Director – HR, AUH shared his deep insights during the FEP held in June 2021, by examining how we can equip our HR leads with skills, capabilities and competencies, which will pole-vault our University to reach new levels of teaching pedagogy and excellence in transforming students into leaders of tomorrow. Deeper analytical deduction suggests that all future employees require a mix of traits viz. Technical, Human Relations, Conceptual & Design, and Business Skills in order to successfully carry out their assignments in this century. This will prepare the vibrant faculty & staff members to face futuristic challenges. Excerpts of the recommendations are:

1. Introducing SAP (Systems, Applications, and Products) HR software to the workplace would aid to manage the entire cycle of an employee, right from sourcing, recruitment, selection, induction, on-boarding, orientation, annual appraisal to track employee performance as well as output; till his exit from the organisation. Thus, the HR department would be able to focus on new dimensions in keeping up with the challenging times and long-term strategic planning.

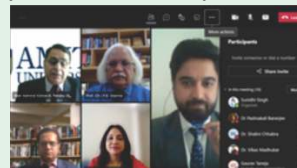
2. Cross-Engagement of faculty members in other departments with similar or linked subjects such as Biotechnology with Medical, Pharmacy, Nanotechnology and Stem Cell or Chemistry

with Pharmaceutical, Medicine, Science & Technology, etc. during the pandemic situation has led to large-scale competency mapping and will assist many employees being redeployed as per the requirements. Further, there is a need to re-skill employees with digitization for redeployment; that will enable them to seamlessly transition into their new roles.

3. Digital Now, Not Tomorrow: We should consider re-imagining our recruitment and sourcing strategies to capitalise on our inherent productivity. The rise and success of remote working has paved the way for alternative recruitment and sourcing strategies, such as conducting the entire recruitment process from planning, talent sourcing to assessing, selecting, hiring, and on-boarding in a virtual environment. Emerging technologies, such as Artificial Intelligence (AI) and Virtual Reality (VR), in conjunction with data science, are driving the automation and digitalisation of HR functions. For instance, through Data Science and AI applications, we will now be able to extensively reduce the hiring cycle by using a fully automated CV screening process.

To summarize, the world is evolving and so should HR. Simply put, HR will need to increasingly find ways to support leaders in restructuring. We need to take workforce rationalization / right-sizing measures, in order to meet the hybrid mode of engagement with students. It is essential to act now – the more HR lags, the more time it will take to adapt and succeed in the post-Covid era.

Conclusion: The Human Resource Management at AUH has undergone numerous changes over the last couple of years in terms of its application, development and role in the University's success. However, there is much more to be done. The need for adaptability and resilience in today's workforce, accelerated the shift towards a new, digital development and further accentuated the importance of HR. And the future will keep presenting organisations with numerous challenges and opportunities regarding dynamic human resource management.



AMITY CENTRE FOR OCEAN-ATMOSPHERIC SCIENCE AND TECHNOLOGY 11

AMITY CENTRE FOR OCEAN-ATMOSPHERIC SCIENCE AND TECHNOLOGY (ACOAST) & AMITY CENTRE FOR ENVIRONMENTAL SCIENCE AND HEALTH (ACESH)

With increased urbanisation and growth of industries around the human habitat, air pollution has become a prime concern to develop meaningful strategies to safeguard human health and to maintain good health of environment. Environmental quality is being adversely affected in various ways and means through anthropogenic activities. While Delhi remains the most polluted city in the world, an estimated 7 million people across the globe are dying each year from exposure to ambient and household air pollution.

The World Health Organization (WHO) recognises that air pollution is a critical risk factor for non-communicable diseases (NCDs), causing an estimated one-quarter (24%) of all adult deaths from heart disease, 25% from stroke, 43% from chronic obstructive pulmonary disease (COPD) and 29% from lung cancer. Recognising this important role of environmental pollution and its potential effects on human health and climate change, in both Academic and R&D domains, two Centres of Excellence, namely, Amity Centre for Ocean-Atmospheric Science and Technology (ACOAST) & Amity Centre for Environmental Science and Health (ACESH) was established at Amity University Haryana (AUH), in 2014 and 2015, respectively.

The main objectives of the above Centres include:

- Upgradation of Curriculum and Syllabus of the on-going two-year M.Tech Programme "Atmospheric Technology and Climate Management (ATCM)"

- To develop a global hub for Air Quality / Pollution and Allied Studies to reinforce Amity as a global domain leader
- Air Pollution Monitoring, Control, Modelling and Forecast
- Ground-Based and Satellite Remote Sensing
- Ocean-Atmosphere Coupling
- Environmental and Human Health: Cohort Studies
- Aerosol-Cloud-Radiation-Precipitation-Climate Interactions
- Bio-Geo Chemistry
- Polar Science
- Atmosphere-Biosphere-Cryosphere Interlace

As a part of these Centres, a Multi-Disciplinary and Multi-Institutional Climate Research Laboratory (CRL) facility in collaboration with ARIES, Nainital; an Air Quality Monitoring Station (AQMS), MICROTOPS-II Multi-Spectral Solar Radiometer and Ozone Monitor; a Particles-Into-Liquid Sampler (PILS) and a Next-Generation Aethalometer in collaboration with IITM, Pune; a NASA-AERONET Sun-sky Radiometer in collaboration with GSFC-NASA, USA, and a Polar Wavelength Integrating Nephelometer in collaboration with Ecotech Pvt. Ltd., Australia, have been established.

AMITY SCHOOL OF EARTH & ENVIRONMENTAL SCIENCES

PROGRAMMES OFFERED:

- B.Sc (Hons) - Earth Sciences
- M.Sc - Environmental Sciences and Mgmt.
- M.Tech - Atmospheric Technology and Climate Mgmt.
- PhD - Earth and Environmental Sciences

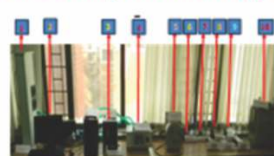


Student performing Atmospheric Science experiments in the ACOAST / ACESH Laboratories as part of UG, PG & PhD Degree programmes

State-of-the-art Laboratory Facilities for Academic and Research Activities at Centres of Excellence of ACOAST and ACESH at AUH, Gurugram

State-of-the-Art Laboratory Support

- Climate Research Laboratory (CRL)
- Solar Radiometry Laboratory (SRL)
- Air Quality Monitoring and Diagnosis Laboratory (AQMDL)



CRL



AQMS (National Network Site)



New-Generation 7-Beam Aethalometer



NASA-Aeronet (Global Network Site)



Polar Nephelometer



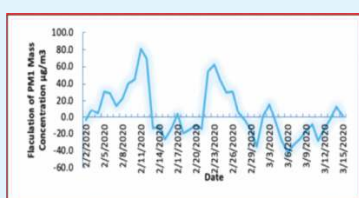
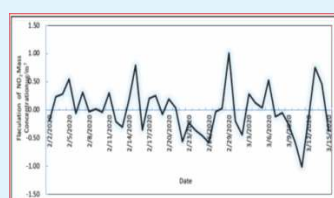
STUDIES ON COVID-19

The deadly novel Coronavirus (COVID-19) pandemic is found to be different from the earlier-detected ones in many ways from the point of view of its sources, but the symptoms appear to be almost similar, and its impact, spread, precautions and remedial measures are very stringent. A graphical representation of the COVID-19, different lockdown phases, imposed by the Government and the resultant reduction in pollution, is shown alongside. Studies have been carried out at AUH to investigate the possible linkages between the physical-chemical-dynamical characteristics of air pollutants (both primary and secondary) and morphology of the Coronavirus (COVID-19), encompassing the Indian Government's decision of observing a Nationwide Janata Curfew on 22 March 2020, thereafter, continuing the lockdown policy.



The synchronous data archived from a suit of collocated Air Quality Monitoring System, Multi-wavelength Solar Radiometer, and Polar Nephelometer, operating at Amity University Haryana (AUH), Panchgaon-Manesar-Gurugram, India for the period from 15 January to 30 March 2020, together with such data gathered over the Delhi NCR and adjoining locations from the CPCB archive, have been analysed for this study. The results reveal that the variability (departures from mean) in criteria pollutants [PM₁₀, 2.5, 10, NO₂, CO, NH₃, O₃, SO₂].

VOCs (Benzene and Toluene in this study)] suggested a relationship with intensity (positive case number) spatial spread / detectability of the COVID-19. This is explained in terms of reduction in air pollution due to closure of automobile, industries, construction / demolition sectors etc. and strict observance of Government's lockdown activities and local meteorological parameters during the study period. Based on the findings, some suggestions to identify and strengthen the source-spread-decay processes, feedback mechanisms and their application to understanding of the on-going COVID-19, and modeling of pathways involved in the prediction of the present and future fast infectious viral diseases.



Daily marching of the mean departures in NO₂ and SO₂ during initial phases of COVID-19

INAUGURATION OF EARTH AND SPACE EXPLORATION PROGRAMME (ESEP) FIELD CAMPAIGN IN LADAKH: CLUSTER #5 - SPACE SCIENCE



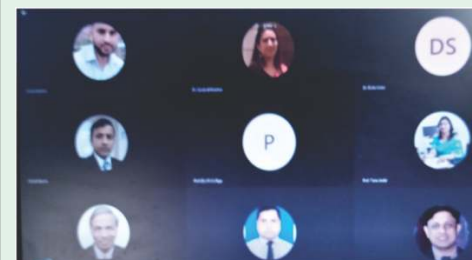
Prof. (Dr.) P C S Devara, Director and Professor, ACOAST/ ACESH and Dr. A A Khan, Assistant Professor & Head, ACOAST/ACAPC, participated in the inaugural event of the Earth Science Exploration Programme (ESEP) and its kick-off meeting on July 19, 2021, to conduct the first field observation programme in the Leh-Ladakh region during 17 July-03 August 2021, as a part of AMITY'S PROJECT MARS INITIATIVE. Dr. Aseem Chauhan, Honorable Chancellor, AUM; Lt. Gen. V K Sharma (Retd.), officiating Vice Chancellor, AUM; Dr. Siddharth Pandey, Head, Astrobiology, AUM; Dr. Tirtha Pratim Das, Director, Space Science Programme, ISRO; Dr. Martin Van Kranendonk, Director, Australian Centre of Astrobiology, UNSW, Sydney; and Daniella Scalice, Education & Communications Lead, NASA Astrobiology Programme spoke on the occasion.

Dr. Khan mentored 20 students from different organisations and conducted water sampling of stream water, lake water (Tsokar lake), ground water and Phuga Spring (hot spring water) from Tsokar and Phuga valley in high altitude (>4500 m.a.s.l) Ladakh region. 06 samples from hot spring water from different locations, 07 samples from Tsokar lake, 04 samples from stream water and 04 samples from ground water were collected for stable oxygen and hydrogen isotopes, major cations and anions and heavy metals analysis. 03 samples for atmospheric chemistry were also collected from Leh and Tsokar valley, which is situated at about 160 km from the Leh city. This lake has many special features.

Phuga valley is situated 50 km from the Tsokar valley. EC/TDS and Temperature measurements of Phuga spring suggest very warm temperature (70°C) with 1500 mg/liter TDS. Few stream water samples were also collected from the Phuga valley. The preliminary analysis of EC / TDS / Temperature data suggests that the Phuga stream water is a mixture of hot spring and snow / glacier melt water.

2) National webinar on 'Innovative Solutions for Mitigation of Environmental Pollution, Control of Global Warming & Sustenance of Peace' under the aegis of Environment and Peace Foundation and BRAUSS (Dr. Bhimrao Ambedkar University of Social Sciences), Indore on August 14, 2021 attended by Prof. (Dr.) Devara, Director & Professor, ACOAST-ACESH, AUH. A detailed poster is pasted below for more information.

3) A webinar on Global Warming and Climate Change (GWCC) – Cluster 16 of the Amity Universe was organised on 5 August 2021.



National Webinar
INNOVATIVE SOLUTIONS FOR MITIGATION OF ENVIRONMENTAL POLLUTION, CONTROL OF GLOBAL WARMING & SUSTENANCE OF PEACE
August 14, 2021 From 6.00 pm to 8.00 pm

Inaugural Speech
Shri Mangubhai Chhatrapati, Hon'ble Minister, Govt. of Maharashtra

Chair
Prof. (Dr.) V K GOSWAMI, Former Vice-Chancellor and President, Environment and Peace Foundation, BRAUSS, India

Chief Guest
Prof. P. B. Sharma, Vice-Chancellor, Amity University Gurugram

Keynote Address
Air Vice Marshal Dr. Ash Tripathi, Ex-Principal Command, Jodhpur Meteorological Department (JMC)

Organized by
ENVIRONMENT, CLIMATE CHANGE & PEACE RESEARCH CHAIR, DR BR AMBEDKAR UNIVERSITY OF SOCIAL SCIENCES, Mhow, M.P., India

Joint collaboration with
ENVIRONMENT AND PEACE FOUNDATION, New Delhi

distinguished speakers
Dr. C K Bharti, Science & Spirituality Chair, BRAUSS
Prof. Dr. P.C.S. Devara, Director, Centre of Excellence in Ocean-Atmospheric Science, Amity University
Mr. Pawan Kumar, Former Vice President, Operations, TCS
Prof. S. K. Tripathi, Former Additional Director, CPCB, Professor at OPJS University Raigarh

webinar link : meet.google.com/jmx-zvxe-tic

GRADUATE DESIGN COLLECTION 2021

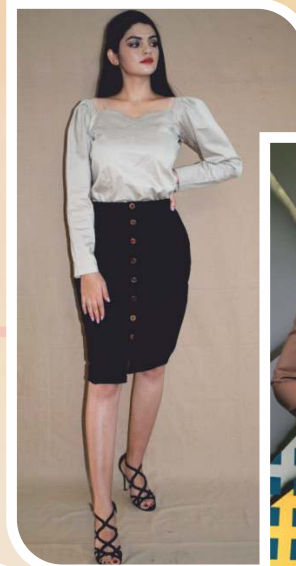
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▲ **MANSI DESHWAL**,
Graduate Design Collection,
VII Sem, ASFDT



▼ **ARYAN SHARMA**, Graduate Design Collection, VII Sem, ASFDT



◀ **SONALI**, AUSTERE



▲ **NAVEEN CHOUDHARY**,
INDIAN WEDDING



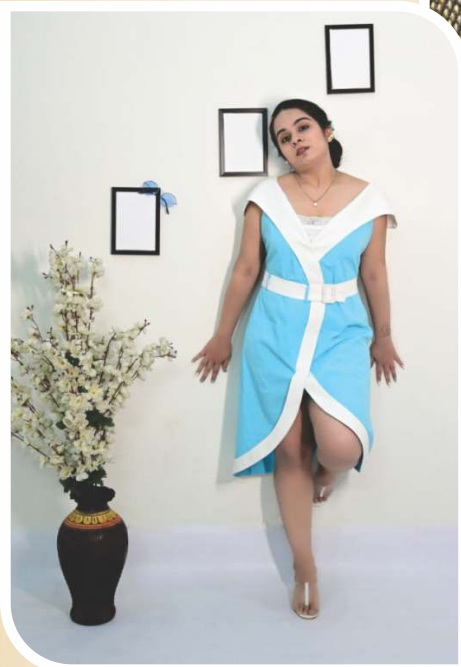
▶ **SHALU AGGARWAL**,
Bloom-Draping Collection
V SEM, ASFDT,



SAPNA SHARMA,
Murial- Draping Collection,
V SEM, ASFDT



▲ **ANIKET RAJPUT**, WABI SABI



▲ **ANSHIKA SADANA**,
Graduate Design Collection,
VII Sem, ASFDT



▲ **SHIVANI**,
Mollusks - Draping Collection
V SEM, ASFDT,



▲ **NIDHI PANJIYAR**,
Graduate Design Collection,
VII Sem, ASFDT



▲ **BHARTI YADAV**,
CONTOUR



▲ **JYOTI GULIA**, VIVID



▲ **GARIMA**,
ESSENCE OF
UNPRETENTIOUS



▲ **AKANSHA KATARIYA**,
SHINING IN THE DARK



▲ **SAMIKSHA JAIN**, ECLECTIC



◀ **SAURABH KAMRA**,
BLUE LAGOON

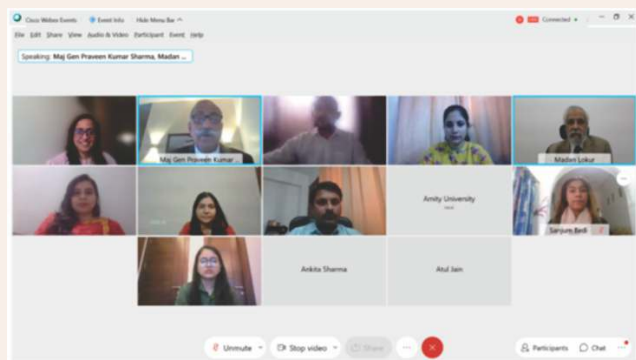
FACULTY DEVELOPMENT PROGRAMME ON EMERGING TRENDS OF CRIME AND CRIMINAL JUSTICE SYSTEM IN INDIA

Amity Law School organised Faculty Development Programme (FDP) on Emerging Trends of Crime and Criminal Justice System in India between 10-16th May 2021.

The Event commenced with the welcoming of the Chief Guest Hon'ble Justice Swatanter Kumar, Former Judge, Supreme Court of India, and Former Chairperson NGT, and Prof. (Dr.) P B Sharma, Vice Chancellor, Amity University Gurugram. The First Session of this 7-Day virtual FDP was addressed by Hon'ble Justice Swatanter Kumar on the Sub-Theme, "Protection of Human Rights of Under-trial Prisoners", which is an expedient part of the criminal justice system. The revered guest began his address with the quote, "if you want to destroy a nation destroy its education." The Lordship explained that the purpose of Criminal Justice System in any country is to protect not only the rights of the victims but also that of the convicts, prisoners and under-trials.

Other eminent speakers who spoke during the FDP were:

- Prof. (Dr.) Nishtha Jaswal, Vice Chancellor, Himachal Pradesh National Law University; Topic - Violence against Women.
- Dr. Manoj Kumar Sharma, Assistant Professor, Rajiv Gandhi National University of Law; Topic - Crime against Children - Issues, Challenges and Prospective.
- Prof. (Dr.) Balraj Chauhan, Vice Chancellor, Dharamshastra National University of Law, Jabalpur; Topic - Protection of Rights of Victims in Criminal Justice System.
- Dr. Pavan Duggal, Advocate, Supreme Court of India, and Founder-Chancellor, Cyber Law University; Topic - Changing Facets of Corporate Crimes in Cyber Age.
- Mr. Vikas Singh, President, Supreme Court Bar Association; Topic: Protection of Witnesses - A Need of the Hour.
- Hon'ble Justice Madan Lokur, former Judge, Supreme Court of India; Topic - The Role of the Judiciary in upholding the mandate of the Criminal Justice System.



PROF. RAJ JAIN FROM WASHINGTON UNIVERSITY RECOGNISED AT AMITY UNIVERSITY FOR HIS EXEMPLARY CONTRIBUTION

Amity University Gurugram organised a session titled the 'Distinguished Global Indian Speaker Series' (DGISS) with Prof. (Dr.) Raj Jain; and Barbara J. and Jerome R. Cox, Jr. Professors of Computer Science and Engineering, Washington University in St Louis, USA (Ranked 16th by US News). He was also felicitated with a virtual citation for his exemplary contribution and path breaking research in the areas of Block Chain, Artificial Intelligence, Telecommunication System and Advanced Computing Applications. Prof. Jain also delivered a talk on 'Blockchain and AI for Risk Management'.

Prof. (Dr.) Gunjan M Sanjeev introduced the esteemed guest Prof. (Dr.) Raj Jain to the audience and talked about the increasing importance of application of Blockchain and Artificial Intelligence in various fields to develop more robust and secure systems.

Hon'ble Vice Chancellor, Prof. (Dr.) PB Sharma welcomed the guest and briefed him about the research environment and work done by AUH faculty and students. Praising the topic, Hon'ble Vice Chancellor said "In the era of Blockchain and Artificial Intelligence, we should take cognizance of the fact that Security, Safety and Integrity are the non-negotiable agenda. Integrity of information, transaction of data must be such that it creates vital impact and nobody should be allowed to misuse or alter it.

Hon'ble Chancellor, Dr. Aseem Chauhan also expressed his profound delight on the presence of these esteemed speakers at the prestigious DGISS platform and also added, "Internationalization is the strength of the Amity University, Platforms such as DGISS provides opportunities to interact and learn the best practices from the top academicians and industrialists from premier foreign organisations to embed the global learning in our pedagogy."

In his presentation, Prof. (Dr.) Raj Jain delivered his session on 'Blockchains with Artificial Intelligence (AI) for Risk Management'. Prof. Jain discussed about the various centralized and decentralized systems and their advantage and risks associated with them. Prof. Jain highlighted the fact that Centralized systems can be hacked and are prone to failure, hence decentralization is required and Blockchain Technology is one of the contemporary promising solutions to it.



FACULTY ACHIEVEMENTS



Dr. Ila Gupta, Director, Amity School of Architecture and Planning, Gurugram was recognised, interviewed, and felicitated as one among the 10 Must Watch Influential Women Leaders in Indian Education by the Higher Education Digest. The interview was published in the March 2021 issue of the magazine.



Dr. Pallavi Sharma, Professor, Amity School of Architecture and Planning, was honoured as a member of the Selection Committee at the Department of Architecture Engineering, Aligarh Muslim University, Aligarh. Besides, she was honoured again by the same institute as an External Examiner for the Evaluation of a Ph.D thesis in 2020.



Excellence in Outstanding Accomplishment (State level) was conferred upon **Dr. Luxita Sharma**, Associate Professor and Head - Amity Medical School and Department of Dietetics & Applied Nutrition by IAPEN, India.



Prof. (Dr.) Gunjan M Sanjeev was invited by the UK based leading media - The PIE to speak on NEP2020 implications on internationalization for the Indian higher educator sector.

At this mega event she highlighted the emerging importance of collaborations across borders and spoke about the innovative Global Study Programmes launched by Amity in this direction.

DOCTORAL RESEARCH TO FOCUS ON NATIONAL MISSIONS AND GLOBAL CHALLENGES-EXPERTS AT WORLD DOCTORATES DAY 2021 ORGANISED BY AMITY UNIVERSITY HARYANA

continued from pg 1

Addressing the august gathering, Nobel Peace Laureate Prof. Dr. Muhammad Yunus said "This is a good time for the research students because the pandemic has raised so many questions which we don't have answers of. This is the time where we can actually research, to figure out what we can do to design a new world free from global warming and other problems so that we can live peacefully and in harmony with nature."

Padma Shri Prof. J S Rajput, India Chair - UNESCO, inspired the researchers by saying that, "When we talk about research, first thing that comes to our mind is knowledge. People who are engaged in creating knowledge, generating knowledge, and utilising this knowledge for its possible utility in the interest of others. Researchers should take pleasure in doing research of great value to the society and for nation building."

Distinguished Guest of Honour, President, Association of Indian Universities, Dr. G Thiruvassagam, Vice Chancellor, AMET Chennai said, "Quality research should not merely be the compulsion for the research scholars rather it should be the passion for them". Voicing his concern for quality of research in Indian Universities, Dr. Thiruvassagam said that we need to formulate concrete plan of action to apply corrective measures as the research is of great value for nation building.

In his highly inspiring presidential address Dr. Aseem Chauhan, Chancellor, Amity University Haryana emphasised that better quality of faculty members and research are important parameters which can change the landscape of higher education in Indian Universities. He added that Amity's ecosystem for research and innovation focuses on consortia research and interdisciplinary research clusters that foster peer review and make research relevant for national missions and global challenges. He continued that under the visionary leadership of the Founder President of Amity Education Group the Group is committed to make the nation proud of its research quality. For us, quality research has a great value if it results in benefitting the industry and society, he concluded.

"Now that a new world is emerging post Covid-19, and a new India is being created, we need to constantly remind the researchers around the world of the mandatory non-negotiable compliance to Research Integrity, Scientific Ethics and Professional Morality that need to be complied by researchers around the world with utmost sincerity and unconditional commitment to build a kind, compassionate and blissful world of our dreams. The doctoral research must necessarily be aligned to national missions and global aspirations" said eminent academicians and Vice Chancellor, Amity University Gurugram, Professor (Dr.) P B Sharma, who is also the host for this year's World Doctorates Day 2021. He reaffirmed that Amity's commitment to quality of education and research is unconditional and is based on a firm resolve to create 'Advantage India' from its research and innovations.

The World Doctorates Day also had the industry captains sharing their perceptions on Industry Academia alliance for improving the quality of doctoral research. These included Mr. Anshul Sonal, Principal Engineer and Global Director - Digital Readiness Programme, Intel Corporate, Singapore; Mr. Ravi Mehra, Deputy Director, Minda Group; Mr. Vivek Birla, Head of Business & Operation, India & APAC, Airbus Inc.; Mr. Vijay Aggarwal, CFO, American Tower Corporation; Mr. Anil Bhasin, President, Havells India Ltd.; and Mr. Alok Sinha, CEO, Globus Eight. They all emphasised on the need for building an effective ecosystem for university-industry partnership for research. The unanimous message emanating from them was that the power of partnership and collaboration with academia for industry is a win-win situation for both as it advances business and assures quality of education and research.

Prof. Dr. Kamal Kant Dwivedi, Senior Vice President, Ritnand Balved Education Foundation (RBEF), and Founder of the Global Network of Doctorates presented an opening talk about the genesis of the World Doctorates Day. He told that the observance of "World Doctorates Day" started in 2012 and on this day every year an international conference on "Issues and Challenges in Doctoral Research (ICICDR)" is organised and a pledge is adopted. This Conference is held in 10 sessions with about 40 speakers of eminence including 2 Nobel Laureates, 20 Vice-Chancellors, Academicians and 6 Industry Leaders. Experts from 10 Countries presented details of Doctoral Programmes in their respective countries. Based on the recommendations of the Conference, a document "Amity Declaration on Quality in Doctoral Research" was adopted by thousands of participants and released by Dr. Aseem Chauhan, Hon'ble Chancellor, Amity University Haryana.

The World Doctorates Day 2021 was attended by over 10,000 researchers from around the world. The programme also included country perspectives on Doctoral Research from eminent speakers from the US, the UK, Europe, Taiwan, Russia, Singapore, Malaysia, UAE and Zimbabwe as informed by Dr. Sanjana Vij, Organising Secretary of the World Doctorates Day 2021.

Dr. Raj Singh, Vice Chancellor, JAIN (Deemed to be University), Bengaluru; Prof. Dr. Pankaj Mittal, Secretary General, AIU, New Delhi; Prof. Dr. R K Pandey, Vice Chancellor, Amity University Chattisgarh; Dr. U N Singh, Prof. & Dean, Faculty of Arts, AUH; Prof. Dr. Sayalee Gankar, Vice Chancellor, DY Patil University, Pune; Prof. Dr. W. Selvamurthy, President, ASTIF, Amity University, Noida; Prof. Dr. Rakesh Bhatnagar, Vice Chancellor, Amity University Rajasthan; Prof. Dr. Manoj Kumar Patraiyra, Advisor, DST, Govt. of India, New Delhi; Prof. Dr. J S Chauhan, Director, Samrat Ashok Technological Institute, Vidisha; Prof. Dr. Balvinder Shukla, Vice Chancellor, Amity University, Noida;

Prof. Dr. Gurinder Singh, Group Vice Chancellor, Amity University, Noida; Prof. Dr. Amita Dev, Vice Chancellor, IGDUTW, New Delhi; Prof. Dr. Regina Chermokina, Udmurt University Izhevsk (Russia); Dr. Yathrib Ajaj, German University of Technology, Sultanate of Oman; Dr. Sandeep Poddar, Dy. Vice Chancellor (Research & Innovation), Lincoln University College, Malaysia; and Dr. Easwaramoorthy Rangaswamy, Principal & Provost, Amity Global Institute, Singapore addressed the plenary sessions at the international conference organised on the World Doctorates Day to deliberate and discuss the way forward for significantly raising the quality and relevance of the doctoral research worldwide.

Prof. Dr. Amit Jain, Pro-VC, Amity University Rajasthan; Prof. Dr. S K Garg, former Pro VC, Delhi Technical University, New Delhi; Prof. Dr. C S Sharma, Professor, SRCC, Delhi University, Delhi; Prof. Dr. Manoj Dixit, Former VC, Avadh University, Faizabad, Uttar Pradesh; Dr. Payel Sen, Asstt. Professor, JAIN (Deemed to be University), Bengaluru; Prof. Dr. Surinder Jaswal, Pro-VC, TISS, Mumbai; Prof. Dr. Nupur Prakash, Vice Chancellor, The North Cap University, Gurugram; Prof. Vikas Madhukar, Dy Pro-VC, Amity University Haryana; Prof. Dr. Ajay Rana, Deputy and Director (A&T), Amity University, Noida; Prof. Sumit Narula, Dean Research (P&C), Amity University Madhya Pradesh; and Mr. Dhiraj Upadhyaya, Director (EDA), RBEF, Amity Education Group also addressed the august gathering.

Dr. A K Nagpal, Chairman, Amity PACIFIC Forum; Dr. Gunjan M. Sanjeev, VP, RBEF and Director, Intl. Affairs, Amity University Haryana; Prof. Dr. Quinton C. Kanhukamwe, Vice Chancellor, HIT, Zimbabwe; Prof. Kamal Bhattacharya, Pro-Rector Research & Transfer, IUBH International University of Applied Sciences, Germany; Prof. Raj K. Tiwari, Professor, NY Medical School, New York, USA; Dr. Rajyalakshmi Manda, Former Principal Research Scientist, DCIDSTB, Nashville, USA; and Prof. Barbara Howell, Associate Dean Global Engagement, Coventry University, UK shared their valuable thoughts during the conference.

A pledge was also administered at the inaugural function of the World Doctorates Day to uphold high ethical standard, integrity and quality of doctoral research and to advance sustainable development and social progress in the world.

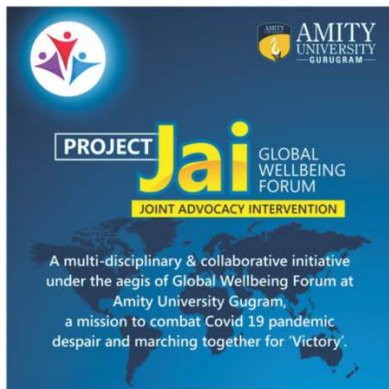


PROJECT JAI (JOINT ADVOCACY INTERVENTION)

The Joint Advocacy Intervention -project JAI is an initiative under the aegis of Global Wellbeing Forum constituted at Amity University Haryana, Gurugram, India in the year 2019. It's a multidisciplinary initiative to deal with the psychological consequences related to Covid19 pandemic focusing on preventive, promotive, curative, and rehabilitative aspects of individual and community. The intervention is going to be prudent to address any other scientific questions in which professionals from different disciplines and backgrounds would collaborate to obtain a more thorough and detailed understanding of the nature of the questions and consequently develop more comprehensive interventions and facilitate creation of an enabling environment. With the announcement of the first lockdown by the Government of India to slow down and contain the spread of Covid19 among the masses, the psychological support services were initiated by the members of Global Wellbeing Forum under the project JAI from March 2020 onwards.

Key objective of the planned activities under project JAI are:

- To strengthen psychological counselling and support services for patients, their family members, and other people affected by the epidemic
- To strengthen referral systems to secondary and tertiary mental health services both in public and private settings
- To conduct research on psychological crisis interventions due to Covid19 pandemic and publications in peer reviewed indexed journals
- To develop collaborations and partnerships for rolling out need based focused interventions and leveraging on resources
- To train student volunteers for providing Psychological First Aid to people affected by Covid19 pandemic
- With these objectives project JAI aims to further reinforce the psychological support and care services for people infected and affected by Covid19 pandemic.



Based on the technical inputs received and for wider circulation of Behaviour Change Communication (BCC) material among the focused communities, it was also uploaded at the home page of Amity University Haryana's website <https://www.amity.edu/gurugram/covid19.aspx>. The same was also widely circulated among the students, faculty and staff over E-mail, WhatsApp and other social networking platforms.

A schedule of Covid19 Tele-Counselling for addressing Mental Health issues was organised by the Amity Institute of Behavioural and Allied Sciences (AIBAS) and Amity Institute of Clinical Psychology (AICP), AUH. The names of respective faculty, their contact number, week-wise day, time etc. was widely circulated among the targeted audience.

Following are some of the key desired behaviour and psychological attributes covered in the IEC material and tele-counselling interventions as per the need of clients:

Approximately 5000 students have been reached out to provide psychological and emotional support through online counselling sessions. Apart from this faculty and students are involved in the educational and research initiatives focusing on Covid19. The focus of such activities is to generate empirical evidences, scientific knowledge and skills to effectively mitigate the impact of Covid19 pandemic.

Workshop on Mental Health and Wellbeing: Under the aegis of Global

Proactiveness needed to ensure Covid19 appropriate behaviour	Accept the situation and validate feelings towards it	Okay to be little anxious or sad sometimes	Avoid worrying and best to take each day as it comes	Follow regular routine, remain active and productive
Follow your hobbies and fun time	Need for limiting the social media exposure	Active coping behaviour	Emotional coping behaviour	Discover potentials during the lockdown period
Care for your body	Mental wellbeing is the key	Exercising and Meditation	Stay connected to the social group	Balancing the thoughts
Maintain a perfect optimistic quotient and professional wellbeing	Maintain a financial health and wellbeing	Remain positive to win	Dealing with social stigma and discrimination associated with Covid19	In distress, patient and the family would need support and cooperation
Compliant behaviour to be avoided	Confidentiality of information	Do's and Do not's related to Covid19	Dealing with post recovery challenges	Sharing happiness and positivity

Wellbeing Forum, Amity University Haryana conducted a workshop on mental health and wellbeing of students designed for schoolteachers and counsellors with more than 300 participants' covering around 75 schools. Prof. (Dr) Padmakali Banerjee, Pro-Vice Chancellor, AUH chaired the workshop and highlighted the techniques to improve mental health and wellbeing in schools and emphasised on development of optimism and resilience in both teachers and students. Principals of many schools were also present in the workshop.

Prof. (Dr.) Rajesh Nair, AIBAS and Dr. Vikas Sharma, AICP dealt with the challenges of counselling in the school settings. The resource persons also demonstrated the utility of psychological testing and early detection and remediation of problems in schools.

The wellbeing of participants was also analysed through the LEAP analysis formulated by Prof. Banerjee. The analysis facilitated the understanding of self from the perspective of wellbeing.

The LEAP model-based analysis facilitates in measuring psychological constructs such as:

- L-Love, passion for what I like to do
- E- Expertise, meaningfulness
- A- Adaptability
- P - Profession
- S - Spirituality, worthy living

Prof. (Dr.) Padmakali Banerjee conducted an interactive live session on "The Power of Positivity- A LEAP for Wellbeing", a televised programme on Ortho TV that was also telecasted on different social media platforms on 4th January 2021 at 9.00 pm under the series title of "Monday Motivation programme". The live motivational programme was attended by scores of medical professionals.

Additionally, as part of school contact programme several panel discussions and webinars have been organised wherein students of different schools in Delhi-NCR and other neighbouring cities have been reached out to for creating awareness related to Covid19 pandemic.

A professional development programme for school-based counsellors was organised on 26th June 2020 on the topic "How to support the children who are in-disciplined, low achiever and lacked attention in class" by Prof. Padmakali Banerjee. Total 30 counsellors and teachers from various schools in Delhi-NCR participated in the intensive programme.

Under School Mental Health programme the M.Phil, Clinical Psychology, Part-II trainees of Amity Institute of Clinical Psychology (AICP) conducted work supervision and tele-counselling of students at different schools in Noida, Delhi and Gurgaon.

“ Every time you are happy, you win ”

Prof. (Dr.) Padmakali Banerjee

Pro Vice Chancellor and Dean Academics,
Amity University Haryana, Gurugram, India

AMITY INSTITUTE OF BIOTECHNOLOGY ORGANISED WORKSHOP ON PROTEIN PURIFICATION AND FLOW CYTOMETRY WORKSHOP BETWEEN 19-23RD JULY 2021

The main objective of the workshop was to educate students / researchers / industrial trainees regarding Protein Purification, general principles of FACS and its applications to experience the comprehensive, qualitative and quantitative profiling of cells analysis and information with high sample throughput using Flow Cytometer.

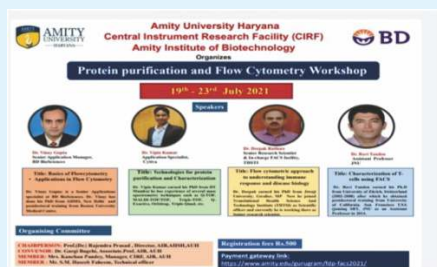
Dr. Ravi Tandon, Assistant Professor, School of Biotechnology, JNU, Delhi, gave insights regarding applications and use of FACS.

Dr. Deepak Rathore, Senior Research Scientist, THSTI, who exposed the trainees to their research work and focused on the separation, identification and quantitation of cells by using Flow Cytometer.

Dr. Vinay Gupta, Applications Manager, Senior Applications Specialist, BD BioSciences, delivered his talk on Basic of Flow Cytometry and its applications.

Dr. Vipin Kumar, Application Scientist, Cytiva, delivered his talk on Protein Purification and Mass spectrometry techniques.

The sessions were highly interactive and received excellent feedback. All 100 participants were imbibed with in-depth understanding and knowledge and received encouragement to explore new research avenues.

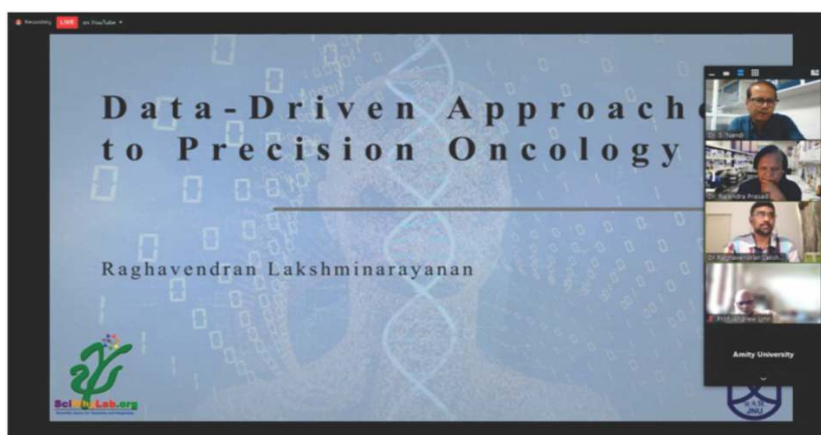


WEBINAR ON DATA-DRIVEN APPROACHES FOR PRECISION ONCOLOGY BY AMITY INSTITUTE OF BIOTECHNOLOGY

Amity Institute of Biotechnology, Amity University Gurugram organised webinar on Data- driven approaches for Precision Oncology by Mr. Raghavendran.L.Narayanan, Post Doctorate – Research Associate, JNU, New Delhi on 16th July 2021.

The main objective of the webinar was to get more information about the Machine Learning techniques used in oncology.

Mr. Raghavendran.L.Narayanan talked about the implementation of machine learning technique in oncology. He focused mostly on difficulties faced in implementing the ML Techniques in oncology datasets. Total 30 students attended the session.



GUEST LECTURE ON ART OF WINNING YOUR DREAM JOB BY NILANJAN MUKHERJEE, RELAXO FOOTWEAR

Corporate Resource Centre, Amity University Gurugram, organised a guest lecture on ART OF WINNING YOUR DREAM JOB on 24th July 2021.

The objective of the event was to sensitize the aspiring managers and engineers about their preparation for the campus placements and to be prepared to face the interview panels.

Mr. Nilanjan Mukherjee, Dy. General Manager-HR, RELAXO Footwear Limited shared important insights on how to prepare for campus placements for the engineering and management students. He put a lot of emphasis on the mental and physical well being of every candidate. Total 33 students and 2 faculties attended the session.



FACULTY ENRICHMENT PROGRAMME AT AMITY UNIVERSITY HARYANA STAFF COLLEGE INAUGURATED BY PADMA VIBHUSHAN DR. RA MASHELKAR, FOUNDER CHAIRMAN, NATIONAL INNOVATION COUNCIL

continued from pg 1

National Education Policy has provided a great opportunity for globalisation and growth and is important to be implemented. University rankings would greatly improve by maximising the university outcome in respect of quality of education, research publications and a more effective translation of research into innovations and new product developments said Hon'ble Chancellor Dr. Aseem Chauhan.

Addressing the gathering Prof. (Dr.) P B Sharma, Vice-Chancellor, Amity University Haryana said, "We need to understand the aspirations of the current and future generations of new-age learners and redesign the higher

together shall create a bright future for humankind. He invited the teaching community to work with passion and pursue new frontiers in research and innovation and also to integrate the advances in research in their class room teaching. Prof. Sharma also reminded that education is both about managing today most effectively and to create a better tomorrow. To manage today most effectively, the teachers must partner with the government on technology missions and also contribute to national missions and work closely with industry and society, opined Professor Sharma.

While coordinating the event, Dr. Sanjna Vij, Programme Director, Academic Staff College, AUH said, "Learning is a continuous and never-ending process. It doesn't stop after earning a degree or at the starting or middle of a career. Through continuous learning, aspiring faculty can constantly improve and update themselves." Rear Admiral KK Pandey (Retd.), HR Director, AUH whilst delivering the Vote of Thanks, highlighted that in a rapidly changing world scenario, the role of teachers assumes utmost importance. This Faculty Enrichment Programme is aimed to foster the knowledge, skills and professional competence of the faculty.

Dr. W. Selvamurthy, President, Amity Science, Technology and Innovation Foundation; Dr. Ajit K. Nagpal, Chairman, Amity PACIFIC Forum; Prof. Padmakali Banerjee, Pro VC, AUH; Dr. Vikas Madhukar, Dy. PVC, AUH; Prof. Gunjan M Sanjeev, Director, International Affairs; Prof. Rajendra Prasad, Director, AIB; and Prof. I S Thakur, Dean, Environment Sciences, ASEES were also present along with 180 faculties and students who had registered for this maiden Faculty Enrichment Programme from diverse universities and institutions across India. Excellent IT support for the programme was provided by the Amity IT Team headed by Dr. JS Sodhi.

The first Plenary Session of FEP was addressed by Padma Shri Prof. Syed Ehtesham Hasnain, Honorary Professor, DBEB, IIT Delhi and National Science Chair of DBT in Biological Sciences and former Vice Chancellor of University of Hyderabad and Hamdard University. Prof. Hasnain shared his lifetime experiences on accelerating Research & Innovations in the field of Science and Technology in Universities by ensuring enthusiastic engagement of faculty in funded research and by maintaining sustained focus on quality and integrity of research. The second Plenary Session was addressed by Dr. (Mrs.) Pankaj Mittal, Secretary-General, Association of Indian Universities, who talked about the importance of ABC concept of Life Long learning, Blended & Hybrid system of learning and also highlighted the benefits of the National Credit Bank idea proposed by the NEP - 2020.

education system accordingly. We need also to take full advantage of the digital transformation to radically reform the teaching & learning environment. Teachers and technology



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RECRUITER SPEAKS



Excellent Infrastructure and a very well-organised and coordinated team of individuals. Good students.

ARGHYADIP DATTA
Sr. Partner at Ogilvy India



Excellent Infrastructure and a very well organised and coordinated team of individuals. An enthusiastic team with a clear and focused vision. I feel they can add real value by partnering with our organisation in various areas such as pre-engagement activities like Guest Lectures, Marathons, Hackathons etc.

ARVIND JOSPEH
Campus Manager, Shell India



Great Coordination! Good student participation in the recruitment process. Overall quality of students is as per industry expectations.

DEEP SHIKHA
Sr. Campus Recruiter at EY GDS



Students from Amity University Gurugram are technically sound, have good communication skills & have done interesting projects. I also felt that they are well groomed and very professional in their approach.

NISHTHA WALIA
Marketing Manager - India & Sub-Continents Abbott

STUDENT SPEAKS



Amity University has contributed greatly to my personal advancement. I've developed my leadership, time management, and teamwork skills under the guidance of my professors. The support and opportunity given by the tutors and faculty members without any communication barrier, and the healthy exchange of ideas with each student, is what makes this university great. The Corporate Resource Centre (CRC) at AUH brings opportunities from all domains, ranging from Web Development to Artificial Intelligence to cater to each and every student who is going to start their professional career.

MRITYUNJAY ABHIYUT BHANJA
Amity School of Engineering & Technology (ASET) | B.Tech - CSE (2017-21)

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My experience with the Corporate Resource Centre (CRC) at AUH has been nothing short of amazing. The journey started from the mock aptitude tests which began in the second year to the mock interviews just before the placements. It was these things that helped me to crack placement with 3 prestigious companies, including the dream company that I am currently working in, Cisco. At every step of my journey, the CRC was there to help and guide me, be it something good or bad. I am extremely thankful to the Amity University Haryana CRC for guiding me in the right direction.

PARV DAHIYA
Amity School of Engineering & Technology (ASET) | B.Tech - CSE (2017-21)

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My experience with the Corporate Resource Centre (CRC) at AUH has been wonderful. My journey started when they began to conduct mock tests in the second year. They also conducted mock interviews which really helped me to get placed in prestigious organizations like HCL & Cognizant. The CRC has supported and guided me at every step, and I am truly thankful to them for my success.

SAHIL GARG
Amity School of Engineering & Technology (ASET) | B.Tech - CSE (2017-21)

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Amity is not just a university, it's a place that I will treasure and cherish for my entire life. The memories I have made here, are priceless. The experience of the cultural diversity of our country and in fact the world, that I gained here, is simply incredible.

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