



CENTRAL
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OF PUNJAB

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NAAC ACCREDITED 'A' GRADE UNIVERSITY
FIVE STAR RATING UNDER GRIHA-LD MASTER PLAN

RANKED 84th AMONG UNIVERSITY CATEGORY IN N.I.R.F. INDIA RANKINGS 2021
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सुदीक्षा (SUDIKHSA)
A CUPB Newsletter

April 2022 - May 2022 | Volume 10 (No. 3)

EDITORIAL

A higher education institution's role is not only to provide holistic education to its students, but also to raise social consciousness about the importance of indigenous languages, knowledge traditions, cultural heritage, and awareness about the adoption of healthy lifestyle practices. The Central University of Punjab, Bathinda (CUPB) is marching ahead in the field of quality education and research while understanding its responsibility towards society.

It's an immense moment of pride for the CUPB community that during the 69th Convocation of Panjab University, held on May 6, 2022, our Hon'ble Vice President of India and Chancellor of Panjab University, Chandigarh, Shri M. Venkaiah Naidu conferred the PU Sahitya Ratan Award on our Hon'ble Chancellor Prof. Jagbir Singh for his remarkable contribution towards Punjabi Literature.

Under the dynamic leadership of Chancellor Prof. Jagbir Singh and Vice Chancellor Prof. R.P. Tiwari, the CUP faculty has delivered a series of lectures in the prestigious institutions of South India to promote indigenous language, literature and culture. Additionally, CUPB, in collaboration with AIIMS, Bathinda, initiated a joint community outreach programme to sensitize youngsters about Vitamin D deficiency and the need to take a healthy diet to maintain immunity to fight the COVID-19 virus. Apart from the above, the university has organized a series of lectures to spread awareness about stem cell registration and about the side effects of drug abuse.

The consistent efforts of the university were rewarded as on April 22, 2022, Dr. Ambedkar Foundation, an autonomous body under the Ministry of Social Justice & Empowerment (MoSJE), signed an MoU with the Central University of Punjab, Bathinda (CUPB) for the establishment of the Dr. Ambedkar Centre of Excellence (DACE) and the Dr. Ambedkar Chair at CUPB campus with the goal of uplifting marginalised communities and conducting research on bridging "socio-political and economic inequalities."

During the period of April-May 2022, the university, besides launching an audio video studio at its campus, has organised a series of academic and co-curricular activities. The university has organised a series of events to mark World IP Day, International Day of Immunology, World Earth Day, World Malaria Day, Anti-Terrorism Day, International Day of Biodiversity and other important days. The NSS Cell of the University also organized a special blood donation camp to pay tribute to the martyrs of Jallianwala Bagh and other activities to develop the overall personality of students.

The April-May 2022 Edition of SUDI KSHA - A CUPB Newsletter highlights the academic and research contributions of CUPB along with major initiatives taken by the university to bring change in society.

Happy Reading!!!

Warm Regards,

Editorial Board

Vice Chancellor's Article

Nature Conservancy: A Biocentric Bhartiya Civilization Discourse

The United Nations proclaimed May 22 as 'The International Day for Biological Diversity' (IDB) to increase understanding and awareness of biodiversity issues. The focal theme of IDB2022 is 'Building a shared future for all life'. For actualizing this noble mission of the United Nations, it is of paramount significance that we revisit the past civilizational discourses that we have had in protecting nature in its totality.

The Civilization heritage of ancient Bharat is well documented in the Vedas, the Upanishads, the Puranas and several other scriptures. The preaching in these scriptures are the set of norms governing our cultural and social lives. One of the greatest and unique strengths of the Sanatan Dharma has been its adoration for nature in its entirety for preserving all possible and probable habitats for all forms of life to flourish on the 'Mother Earth'. Perhaps, no other civilizational discourse, attached so much significance and interconnectedness to various facets of nature as the Sanatan way of lifestyle, values and virtues. In Vedic culture, natural resources have never been considered commodities to be consumed for enjoyment and worldly pleasure as are viewed now. Contrarily, people were outlawed from the overexploitation of natural resources. They were mentored to worship the divinity that exists in the animate and the inanimate world including plants, animals, water, air, soil, fire, stones, hills, mountains and planets etc, necessary components for sustaining biodiversity. Hindu's recognised, appreciated and preserved the purity of varied facets of nature in all their life activities. In essence, they practised nature centric civilizational and development discourse that ensured the longevity of all forms of life. The degree of respect and interconnectedness that Sanatanis had with nature is amply demonstrated by the Yajurveda sloka necessarily recited on rituals 'Om dyauh shanti rantariksham shantih, Prithvi shantirapah shantih Oshadhayah shantih; Vanaspatayah shantih, Vishvedevaah shantih Brahma shantih; Sarvam shantih, Shantireva shantih, Saamaa shantiredhah; Om shaantih, shaantih, shaantih' meaning that 'May peace radiate there in the whole sky as well as in the vast ethereal space everywhere; May peace reign all over this earth, in water and in all herbs, trees and creepers; May peace flow over the whole universe; May peace be in the Supreme Being Brahman; And may there always exist in all peace and peace alone'. All sphere of human activities centred on the purity of nature and were zero-emission and zero-waste based.

Vedic people had a co-existential frame of mind with the lithosphere, hydrosphere, biosphere and atmosphere. They knew that life originated in water and cannot be sustained without ensuring its purity. Hence they worshipped various forms of water bodies including clouds, rivers, lakes and oceans for securing their purity. Vedic people appreciated that mountains, hills, grasslands and riverine are the repository of biodiversity and utmost necessity for preserving and sustaining life-supporting ecosystems, hence they worshipped these landforms as well. We have been worshipping trees, herbs and creepers since Vedic time in recognition of the fact that all animal forms depended on these for food, fodder, fuel and medicine besides their utility in maintaining carbon neutrality and enriching biodiversity. In Vedic culture, plants are believed to have consciousness like humans and can feel pain as well as happiness. This belief ensured that the plants and their products become an integral part of our rituals and ceremonies. Plants like peepal, banyan and neem (Triveni), kadamb, bael, tulsi, awla, mango, banana, coconut, lotus, paan, sandalwood, rudraksa, camphor, parijaat, ashoka etc were revered on various occasions. Vedic people were conscious of their nutritious, environmental, medicinal and ornamental values. Even several forms of animals and birds were worshipped to showcase their usefulness to the ecosystem. Vedas accorded the status of GOD to all forms of natural energy including Agni and Vayu. Yagnas were performed for the purification of air. All of these created a conducive environment for all forms of life to flourish resulting into great biodiversity all around.



Prof. Raghavendra P. Tiwari,
Vice Chancellor, CUPB

'Less is More' and ethical use of natural resources were two among the several civilization traits that governed our lives. The first sloka of Ishopnishad taught us '*Isavasyam idam sarvam, yat kinca jagatyam jagat; tena tyaktena bhunjitha, ma grdhaḥ kasya svid dhanam*' implying that every animate and inanimate entity in the universe is controlled and owned by the Almighty. One should therefore accept only those things necessary for himself, which are set aside as his share, and one must not accept other things, knowing fully well to whom it belongs. It is in this backdrop that the ancient Bharatiya value system and way of life should become everlasting and be internalised as the guiding principle of our future civilizational and epistemological discourses. During the last few centuries, however, we witnessed severe erosion in universal human values and other such novelties of civilization. This may be attributed to the foreign invasion and western rule in our sacred land. Most-damaging effect, however, was due to embracement of macaulayan education system at the cost of native time-tested Gurukul System. Consequently, we have become slaves of western culture, value system, mind-set and thought and action process. This, besides eroding our rich cultural heritage, damaged our indigenous treasure of knowledge. Now, we live in a world, which operates on the paradigm of 'More is Less'. Ruthless exploitation of natural resources for satisfying our greed has become so rampant that we have to learn the idea and concept of nature centric sustainable development and dignity and decency of human race from the foreign intellectuals.

For the previous few centuries, especially during the foreign rule, Vedic culture, traditions and value system underwent stark departure and erosion. Our holistic world view became fragmented, 'Less is More' became 'More is Less', 'Sarve Bhawantu Sukhinah' became 'I Bhawantu Sukhinah', 'Vasudhaiv Kutumbakam' became 'Live in Relationship' 'Not Me but You' became 'Not You But Me', 'Nature Centric' became 'Self Centric' and 'Environmental-friendly' became 'Environmental-enmity'. Vedic philosophy that 'Objects around are the extension of the Self' is vanishing now from our thought and action process and as a consequence, we do not stay connected with the outside world. We have embraced an individualistic and consumerist mindset and lifestyle resulting into the overexploitation of natural resources. Every facet of nature has now become fragile and vulnerable. Water bodies are silting-up and becoming dry, hills are being destroyed, trees are being cut for paper and napkins, soils are under stress to produce more, and environmental friendly dwellings and things of daily use are replaced by concrete structures and plastic made materials, respectively. The health of soil, water and air has become extremely vulnerable owing to pollution and excessive use of fertilizers and pesticides. As a result, the great biodiversity that 'Jammu Dweep Bharat Khande' supported is dwindling fast. The plants, invertebrate and vertebrate species inhabiting the land, water and soil, so essential for building a shared future for all life-forms, are under ever-increasing threat as their habitats are fast becoming unsuitable for survival and proliferation of biodiversity. Several thousands of such species have already become extinct and several thousands are on the verge of extinction. The emission of greenhouse gases, temperature rise and climate change have crossed all limits.

Under the circumstances, should we wish to build and secure a shared future for all forms of life on the planet Earth including Homo sapiens, we need to restore our Vedic culture, traditions and ways of interaction with nature in all spheres of the human domain. Everyone's commitment is a must for saving mother earth and nature. Let us accept the fact that we have become cruel to mother Earth and are inflicting irreparable damage to its life support system for actualizing our limitless greed.

**Prof. Raghavendra P. Tiwari,
Vice-Chancellor,
Central University of Punjab, Bathinda**

Moment of Pride

May 6, 2022: Panjab University conferred 'PU Sahitya Ratna Award' on CUPB Chancellor Prof. Jagbir Singh for his remarkable contribution in Punjabi Literature

To recognize the invaluable contribution of one of the most distinguished educationalists of religion and civilization studies, the Panjab University, Chandigarh, has bestowed Prof. Jagbir Singh, Hon'ble Chancellor, Central University of Punjab, Bathinda (CUPB), with the PU Sahitya Ratna Award during the 69th Convocation held on May 6, 2022.



Hon'ble Vice President of India conferring PU Sahitya Ratna Award to Prof Jagbir Singh

Shri M. Venkaiah Naidu, Hon'ble Vice President of India and Chancellor, Panjab University, Chandigarh, graced the occasion as the Chief Guest. He conferred the prestigious PU Sahitya Ratna Award on Prof. Jagbir Singh in the gracious presence of Shri Banwarilal Purohit, Hon'ble Governor of Punjab & Administrator, U.T., Chandigarh; Shri Bandaru Dattatraya, Hon'ble Governor of Haryana; Shri Bhagwant Mann, Hon'ble Chief Minister, Punjab; Shri Manohar Lal Khattar, Hon'ble Chief Minister, Haryana; and Sh. Som Prakash, Hon'ble Minister of Commerce and Industry; Prof. Raj Kumar, Hon'ble Vice Chancellor, Panjab University; and other dignitaries.

On this occasion, Prof. Raghavendra P. Tiwari, Hon'ble Vice Chancellor, Central University of Punjab, asserted that Prof. Jagbir Singh, in his 50 years of teaching and research experience, has made a remarkable contribution in the field of Punjabi Literature and

Culture, and the conferment of the PU Sahitya Ratna Award is the recognition of his dedicated and untiring efforts. While expressing his happiness, he stated that this is a moment of immense pride for the entire CUPB fraternity.

The conferment of PU Sahitya Ratna Award to Chancellor Prof. Jagbir Singh is the recognition of dedicated and untiring efforts made by him in his 50 years of teaching and research experience to promote Punjabi Language, Literature and Culture – Vice Chancellor Prof. RP Tiwari

Prof. Jagbir Singh is one of the most distinguished educationalists of religion and civilization studies. He pioneered different aspects of research and established new paradigms in the area of Gurbani for folklore, religious and civilizational studies. He has published 20 books and presented research papers at more than 100 national and international conferences. He is a Life Fellow of Punjabi University in Patiala, an Advisor to the Centre for Studies in Guru Granth Sahib at GNDU Amritsar, and a Member of the Indian Institute of Advanced Studies in Shimla. He is also the former Professor of the Dept. of Religious and Civilizational Studies at Shri Guru Granth Sahib World University, Fatehgarh Sahib. Currently, he is researching the idea of India as a civilizational state, in contrast to India as a nation state. Prof. Jagbir Singh is also working on a project relating to Indic Civilization and its Dharmik Traditions.

MoU Signed by University

April 22, 2022: Dr. Ambedkar Foundation signs MoU with Central University of Punjab for the establishment of Dr. Ambedkar Centre of Excellence (DACE) and the Dr. Ambedkar Chair in the university

Dr. Ambedkar Foundation, an autonomous body under the Ministry of Social Justice & Empowerment (MoSJE), signed MoU with the Central University of Punjab, Bathinda (CUPB) for the establishment of Dr. Ambedkar Centre of Excellence (DACE) and the Dr. Ambedkar Chair at CUPB campus with the goal of uplifting marginalised communities and conducting research on bridging "socio-political and economic inequalities.

The announcement came when Union Minister for Social Justice and Empowerment and Chairman of the Dr. Ambedkar Foundation (DAF), Dr. Virendra Kumar, launched DACE at 31 central universities and Dr. Ambedkar Chairs at 24 universities/institutions during the launch event held at Banaras Hindu University. During this event, Prof. B.P. Garg, Controller of Examinations and Registrar (Officiating), signed the MoU on behalf of CUPB with Shri Vikas Trivedi, Director, Dr. Ambedkar Foundation. for the establishment of DACE and the Dr. Ambedkar Chair.



Glimpse of MoU Signing ceremony between Central University of Punjab and Dr Ambedkar Foundation

Under this MoU, CUPB & DAF, MoSJE will establish Dr. Ambedkar Centre of Excellence (DACE) to provide high quality free coaching facilities to the Scheduled Caste students for the Civil Services examinations, conducted by Union Public Service Commission (UPSC) and other competitive examinations. Under the DACE Scheme, a total of 100 seats have been sanctioned for the coaching of SC students, of which 33% of seats will preferably be given to the eligible female candidates of Scheduled

Castes. In this scheme, the Dr. Ambedkar Foundation (DAF) will fund the entire expenditure incurred on the establishment of the Dr. Ambedkar Centre for Excellence and will provide a grant of Rs. 75,000/-per annum/per student to the university for the coaching of 100 students (i.e. a total of Rs. 75 lakh grant for 100 students)

Apart from this, Dr. Ambedkar Chair will be established at the Central University of Punjab with the aim of conducting advanced research to understand, assess and disseminate the ideas and thoughts of Dr. B.R. Ambedkar. The Chair would also conduct research on deprived sections of Indian society to provide justice and empower them. To accomplish the objective, DAF will provide a one time establishment grant of Rs 10 lakh for infrastructural set-up and a grant-in-aid of Rs 75 lakh to each Dr. Ambedkar Chair.

Establishment of DACE at CUPB will allow us to provide high quality free coaching facilities to the Scheduled Castes students for the Civil Services examinations – Vice Chancellor Prof. RP Tiwari

On this occasion, Vice Chancellor Prof. Raghavendra P. Tiwari expressed his gratitude towards the Ministry of Social Justice and Empowerment and stated that the establishment of DACE and the Dr. Ambedkar Chair at CUPB will provide additional opportunities for our SC students to actualize their dream of preparing and qualifying for the Civil Services Examinations and generate additional prospects for academicians and research scholars to conduct research for the effective implementation of Dr. Ambedkar's ideas of social justice and to reaffirm faith in an equitable and inclusive society.

Audio Video Studio Launch

May 6, 2022: Audio Visual Studio-cum-Media Lab launched at Central University of Punjab

The Department of Mass Communication and Media Studies (MCMS) at the Central University of Punjab, Bathinda (CUPB) has enhanced its course infrastructural facilities with the launch of the Studio-cum-Media Lab at the university campus to impart practical knowledge of audio-visual production and media concepts to its students.

Prof. Raghavendra P. Tiwari, the Vice Chancellor, CUPB, along with Chief Guest Prof. B. K. Kuthiala, Chairperson, Haryana State Higher Education Council; and Distinguished Guest Shri Amit Sharma, Resident Editor, Dainik Jagran, Punjab officially inaugurated the newly constructed Studio-cum-Media Lab on Thursday. On this occasion, MCMS Dept. students recorded the first interview with the esteemed guests from the new studio.

The AV studio, which includes a shooting floor, an editing room, and a production control room, is equipped with cutting-edge technology. The studio has been fitted with state-of-the-art hardware and software, such as 4K Video Cameras, Full Frame DSLR, Chroma-key setup, multipoint lighting, audio recording setup, teleprompter, and editing system. In the Media Lab, there are a total of five iMacs available to assist the students in their new media studies.

During the inaugural ceremony, Vice Chancellor Prof. R.P. Tiwari stated that the facility of the Studio-cum-Media Lab at our university would enable the students to get hands-on-training in the field of audio-video production and understand the practical concepts of new media studies. Furthermore, this facility will be utilized for recording of MOOCs, e-content, and video lectures. He emphasized that the content generated through this studio will facilitate hybrid learning in accordance with NEP2020.

The Chief Guest, Prof. B. K. Kuthiala, congratulated the faculty of the CUPB MCMS Dept. for establishing a state-of-the-art Studio-cum-Media Lab. He stated that the evolution and growth of the new media industry has increased the demand for dynamic mass communication professionals who can not only generate news content in text and video formats but also analyse its impact on highly interactive new media platforms. He added that this facility would be helpful to students to showcase

their creativity in the fields of audio and video production and online content creation.



Glimpses of AV cum Media Lab launch ceremony

In his address, Mr. Amit Sharma shared that the emergence of new media technologies has attracted media users to consume news content from highly interactive media platforms, which further pushed the print media conglomerates to adapt to the new technology. He added that in the current scenario, media journalists, besides their role of covering news stories, have to present the same effectively to their target audience and also need to debunk viral fake news prevailing on social media. He motivated the students to develop their specialization in one particular area of journalism and acquire working knowledge in other related fields such as video recording, editing, designing, fact checking, etc.

Prominent amongst others present in the inaugural ceremony were Prof. V.K. Garg, Dean Student Welfare, Prof. Amandeep Kaur, Dean, School of Information and Communication Studies and the faculty of the MCMS Dept. Dr. Chhavi Garg, Incharge, MCMS Dept., Dr. Paramveer Singh, Dr. Rubal Kanozia, and Dr. Mahesh Meena. Research scholars and students enthusiastically participated in this programme.

International Conference /Workshop / Symposiums

April 18, 2022: Workshop on "Reaxys: An Advanced Data Analytic Tool" organized at Central University of Punjab

To impart knowledge about search engines which could play a vital role in conducting high quality research, the Central University of Punjab, in association with Elsevier, organized a workshop on "Reaxys: An Advanced Data Analytic Tool". The keynote speaker of this programme was Dr. Mandar Bodas, Solution Consultant, Elsevier. Students and research scholars from various departments of the university pertaining to School of Basic Sciences, School of Health Sciences, School of Environment and Earth Sciences attended this programme.



Dr. Mandar Bodas addressing the participants

Dr. Mandar Bodas stated to participants that Roaxyx is a data-driven support to advance research and education in the chemical, pharmaceutical, and life sciences fields. He further stated that Roaxyx is an information system built to mirror real-world use of chemistry knowledge to conduct advanced chemical research, develop chemical

compounds, drug and vaccine development, and manage avenues of research to improve the R&D productivity of researchers. While sharing the advantages of Reaxys over existing research databases, Dr. Bodas said that researchers could get direct answers to their research questions from the updated information provided through its Bioactivity Database, Bibliographic Database, Substance Database, Chemical Reaction Database, Property Database, and Target Database.

During this workshop, Dr. Mandar Bodas showcased live demonstrations about utilizing Reaxys for Synthetic Planning, Predictive Retrosynthesis, Commercial Suppliers for Starting Materials, Analysis of physico-chemical properties, compound-target affinity information, toxicology data from in-vitro and in-vivo models, competitive landscape and novelty search.

At the outset, Dr. Vikram Deep Monga, welcomed the participants and introduced the keynote speaker. Towards the end, Dr. Harikrishna Reddy thanked everyone for making this programme a success. The programme was organized by the Department of Pharmaceutical Sciences and Natural Products, the Department of Pharmacology, and the Department of Human Genetics and Molecular Medicine of the university.

April 27-29, 2022: BABA Farid College, Bathinda in collaboration with Central University of Punjab organised a Virtual International Conference on Emerging Trends in Biotechnology and Sustainable Chemistry (ETBSC2022)

The Inauguration ceremony of the Virtual International Conference on Emerging Trends in Biotechnology and Sustainable Chemistry (ETBSC2022) was held at the Baba Farid Group of Institutions, Bathinda on 27th April 2022. The conference was organised by the Department of Biotechnology and Chemistry, Faculty of Sciences, Baba Farid College Bathinda, in collaboration with Central University of Punjab, Bathinda, and the Society for Biotechnologists, India and also sponsored by the Indian National Science Academy (INSA), New Delhi and

the Council of Scientific & Industrial Research (CSIR), New Delhi. A total of 556 candidates from all over the world had registered for the conference, of which 60 percent were female candidates.

At the very start of the function, Chief Guest Prof. Raghavendra Prasad Tiwari, Vice Chancellor, Central University of Punjab, Bathinda, Prof. Ramakrishna Wusirika, Dean In-charge Academics, CUP, Bathinda and Dr. Monisha Dhiman, Professor & HoD-Microbiology, CUP received a floral welcome by Dr Gurmeet Singh

Dhaliwal, Chairman, Baba Farid Group of Institutions and all the honourable guests, along with Dr Dhaliwal, Dr Pardeep Kaura, Principal, Baba Farid College and by Dr. Zaved Ahmed Khan, Dean Faculty of Sciences, BFC lightened the lamp.



Glimpses of Inaugural Ceremony of ETBSC2022

Thereafter, Dr Gurmeet Singh Dhaliwal delivered a welcome speech for all the dignitaries present at the ceremony. After this, Dr Zaved Ahmed Khan gave a brief introduction to the conference theme. He emphasised that this conference will be a significant step towards building an Atmanirbhar Bharat with science and self-reliance as the governing force, which has been the focus of our Prime Minister's vision. This was followed by an address by Prof. Ramakrishna Wusirika, Dean Incharge Academics, CUPB.

The Chief Guest of the inauguration ceremony, Prof. Raghvendra Prasad Tiwari, appreciated the ETBSC 2022 team for conducting an international conference on such a relevant topic. He expressed hope that the deliberations of this conference would be helpful in developing innovative solutions for achieving sustainable development goals.

On this occasion, all the dignitaries present at the stage launched the book of proceedings of the Virtual International Conference, which includes 227 abstract papers. Along with that, Prof. Raghvendra Prasad Tiwari, Prof. Ramakrishna Wusirika and Dr. Monisha Dhiman were awarded with the Award of Honour by Dr Gurmeet Singh Dhaliwal.



Glimpses of Launch of Book of Proceedings of International Conference ETBSC2022

During this three-day Virtual International Conference on ETBSC2022, a total of twelve plenary sessions were conducted during which distinguished speakers from India and abroad, including Prof. (Dr) Sharad P. Kale (Padama Shri), BARC, Mumbai; Dr. Konstantin Glebov, Clinical Neurobiology, UK; Nicolas Rousseau, CEO, EverZom, France; Dr. Adarsh Kumar, Scientist, Ural Federal University, Russia; Prof. H.K. Chopra, SLIET Longowal; Dr. Himender Bharti, Punjabi University, Patiala; Prof. U.C. Banerjee, NIPER Chandigarh and Prof. S. S. Hundal, PAU, Ludhiana delivered special lectures on different sub-themes of this Conference. Additionally, young scientists and students participated in different sessions on Poster and Oral Presentations.

The International Conference on ETBC-2022 concluded with a valedictory function on April 29, 2022. During the valedictory session, Dr. Manish Gupta, Dean Research and Innovation, BFGI, Bathinda, delivered the welcome address. This session was chaired by Dr. Edathil Vijayan, President, Society for Biotechnologists India. On this occasion, Dr. Ritu Pawan, Convener, ETBC-2022, shared the report of the conference. Dr. Zaved Ahmed Khan, Dean Faculty of Sciences, BFC Bathinda, Dr. Monisha Dhiman, Professor & HoD-Microbiology, CUP Bathinda and Dr. Vinod Kumar, Associate Professor & HoD Chemistry, CUP Bathinda. congratulated all the team members of ETBSC-2022 for a successful compilation of the conference and thanked the participants for their overwhelming response. Dr. Ritu Pawan, Convener, ETBC-2022, gave a formal vote of thanks towards the end of this program.

May 11, 2022: Mini Symposium on 'Recent Trends in Biological and Material Sciences' held at Central University of Punjab

The Department of Computational Sciences at the Central University of Punjab, under the patronage of Vice Chancellor Prof. Raghavendra P. Tiwari, organized a Mini Symposium on 'Recent Trends on Biological and Material Sciences'. The central theme of the symposium

focuses on the recent advancements in the interdisciplinary areas across the physical, chemical, and life sciences.

The distinguished speakers for this programme were Prof. Punit Kaur, Head, Dept. of Biophysics, AIIMS New

Delhi; Prof. P. Venugopalan, Dept. of Chemistry, Panjab University, Chandigarh; and Prof. R.K. Wusirika, Dean Incharge Academics, CUPB.

At the start, Dr. K. Saraobji, HoD, Dept. of Computational Sciences, welcomed the esteemed guests. In his inaugural talk, Prof. R.K. Wusirika stated that recent discoveries such as AlphaFold2, AI Programme RoseTTAFold, and others have the potential to lead to new inventions with wider applications in AI Powered Protein Structured Prediction. He shared CRISPR editing success stories and highlighted the fact that scientists are discovering applications of the CRISPER-Cas9 system to find cancer cures. He also discussed the advanced research happening in excision of retrotransposons, which has made possible colour reversion of grapes and other fruits.



Prof. P. Venugopalan addressing the participants

Prof. P. Venugopalan delivered a lecture on "Supramolecular Aspects in Crystal Engineering: A Structural Perspective". He elaborated on Crystal Engineering as a study of systematic architecture of crystal

structures and the utilization of such knowledge in the design of new solids with desired chemical and physical properties. He added that the field of crystal engineering has proved its importance in the areas of polymorphism and pharmaceutical drugs. The Crystal Engineering researchers would aim to find ways to pack molecules in pre-designed ways.



Prof. Punit Kaur addressing the participants

Prof. Punit Kaur shared the latest advancements happening in the field of biophysics. She stated that Computational Science has helped scientists of various disciplines perform complex experiments with the help of AI and high-speed computers. She discussed the concept of binding mode of Quinolone to DNA Gyrase and shed light on mutational induced conformational alteration in stDNA-Gyrase.

After the expert lectures, students and research scholars presented their research work and discussed their queries with the invited speakers. Towards the end, the organizing team thanked the participants for making this programme a success.

Outreach Activities

April 1, 2022: Central University of Punjab's Professor delivered lectures at prestigious universities in South-India to promote indigenous languages, literature, and culture

Aiming to promote the indigenous languages and their contribution to preserving Indian knowledge, traditions, culture, and values, Prof. Zameerpal Kaur, Dean, School of Languages, Literature, and Culture, Central University of Punjab, Bathinda (CUPB) delivered a lecture-series, participated in the meetings and conducted interaction-sessions at prestigious universities in South-India in last month.

Prof. Zameerpal Kaur delivered lectures as an invited speaker during various programmes organized at Pondicherry University, Pondicherry; the Central Institute of Indian Languages (CIIL), Mysore; the North Karnataka and Women Writers Association, Dharwad, in collaboration with Kuvempu Bhasha Bharti, Dharwad. She delivered lectures at the aforementioned

educational institutions on a variety of topics, including Punjabi Sufi Poetry: Socio-cultural Concerns, Traces of Kavya Shastra in Agni Purana, and Women's Autobiographies in Punjabi.

During her visits to the aforementioned HEIs, Prof. Zameerpal Kaur participated as a guest speaker in national seminars and lecture series organized in the last week of March, 2022. She also attended a meeting with Prof. Shailendra Mohan, Director, CIIL, Mysore, and his team members Dr. Tariq Khan and Dr. Narayan Choudhary to discuss the actionable points to be implemented under the MoU signed between CIIL, Mysore and CUPB.

After returning, Prof. Zameerpal Kaur stated that she got an overwhelming response from the faculty and

students of South Indian universities. She also informed the Vice Chancellor that CIIL Mysore administration has given a positive response to CUPB's proposal to jointly commence two skill based short term certificate programmes in Computational Linguistics and Punjabi Translation.

While commending the efforts of the School of Languages, Literature and Culture, Prof. Raghavendra P. Tiwari, the Vice Chancellor, assured that the necessary support would be provided by the University administration for the launch of such programmes beginning with the next academic session in collaboration with CIIL, Mysore to empower the learners with the skills of translation, interpretation, and natural language processing.



Glimpses of lecture series of Prof. Zameer Pal Kaur at different institutions of south India

May 6, 2022: Central University of Punjab and AIIMS Bathinda initiated joint community outreach programme series to spread awareness about Vitamin D deficiency

The Central University of Punjab, Bathinda (CUPB), in collaboration with the All India Institute of Medical Sciences, Bathinda (AIIMS Bathinda), launched a joint community outreach programme series to raise awareness about Vitamin D deficiency and improve public health.

As a part of this programme, a health check up camp was organized last week at the Government Dispensary, Naruana Village near Bathinda City. In this camp, medical experts from AIIMS Bathinda gave medical consultation and scientists from CUPB were involved in awareness programmes and health screening. More than 100 patients attended this camp and received free medical consultations and health check-ups.



Group Photo of CUPB Scientist and AIIMS Bathinda Medical Experts during the outreach programme

In the next few days, many such camps will be organized in rural areas near Bathinda during which the organizing

team will visit surrounding villages near Bathinda to screen people for vitamin D deficiency and spread awareness for better public health.

This programme is a part of MoU signed earlier by CUPB Vice Chancellor Prof. R.P. Tiwari and Director AIIMS Bathinda Dr. D.K. Singh to foster cooperation in academics, research and public health. The research team led by Dr Sabyasachi Senapati, Department of Human Genetics & Molecular Medicine, CUPB, and the medical team led by Prof. Rakesh Kakkar and Dr Madhur Verma, took the initiative to implement this programme to reach the local community for improved health. Dr Venus Jain Medical Officer at Government Dispensary, Naruana Village assisted to organize the program.

While sharing the details of the programme, Dr Sabyasachi Senapati, human geneticist from CUPB, stated that vitamin D deficiency is a major health concern worldwide as it causes malnutrition and several other lifestyle diseases. Detection and treatment of Vitamin D malnutrition at an early stage will improve the overall public health and reduce the disease burden. A pilot study from Dr. Senapati's laboratory observed Vitamin D deficiency in 77% of individuals in an otherwise healthy population. He emphasized that this outreach programme would help understand the requirements of the Indian population in the context of a specific scale for vitamin D deficiency that can be correlated with symptoms.

Major Events

April 1, 2022: Central University of Punjab organized a LIVE screening of “Pariksha Pe Charcha 2022” programme with multi-screen set up

Central University of Punjab, Bathinda (CUPB) organized a special screening of the fifth edition of the "Pariksha Pe Charcha 2022" (PPC2022) programme on Friday with the aim to release exam stress among students. The LIVE screening of this programme was organized at four different venues of the university (Seminar Hall, Computer Centre, Conference Room, and IQAC Meeting Room) to exhibit the Hon'ble Prime Minister Shri Narendra Modi's interaction with students. More than 400 students, research scholars, faculty and staff members along with Vice Chancellor Prof. Raghavendra P. Tiwari attended this programme.

and develop the capability to appreciate the qualities of others and learn from them. He emphasized the importance of time management and physical fitness to stay ahead in this competitive world, and encouraged them to be ready to take calculated risks to grow further in life. The Hon'ble PM urged parents to provide equal opportunities to both male and female children and to avoid pressuring their children to choose a particular profession. Shri Modi also motivated youngsters to work for environmental conservation by joining the "P3 movement" (Pro Planet People Movement) and adopting a lifestyle for the environment—LIFE.



CUPB fraternity attending Pariksha Pe Charcha 2022



Group photograph of CUPB students along with VC Prof RP Tiwari during Pariksha Pe Charcha 2022 programme

At the outset, Union Education Minister Shri Dharmendra Pradhan expressed his gratitude towards the Hon'ble PM and encouraged the students to appear for the exam in a fearless mood. During the programme, the Hon'ble PM Shri Narendra Modi Ji interacted with students, teachers, and parents from every nook and corner of the country. While answering questions, Shri Modi mentioned that students should not get stressed during exam days, rather they should utilize their experience of previous examinations to tackle the upcoming examinations. He encouraged youngsters to consider technology as an opportunity and not as a challenge. He advised students to adopt a disciplined life routine, follow their dreams without imitating others,

After attending the live screening of PPC2022, Prof. Raghavendra P. Tiwari, the Vice Chancellor, thanked the Hon'ble Prime Minister and the Hon'ble Education Minister for providing an opportunity for students of our country to release their exam stress. He said that the suggestions and advice of the Prime Minister to students would surely be beneficial to them to combat exam stress and become exam warriors. He added that the university is committed to providing holistic education to our students in a stress-free atmosphere and ensuring ample opportunities to enhance their skill sets to turn them into global citizens.

April 22, 2022: Central University of Punjab organized series of events to mark Earth Day 2022

- **Eminent scientists shared their views on ways to preserve our mother earth and make our planet a better place to live for future generations.**
- **Students from different schools in Bathinda showcased beautiful models and posters during the Geological Exhibition organized by the CUPB Geology Dept.**

The Department of Geology of the Central University of Punjab, Bathinda (CUPB), in collaboration with the Ministry of Earth Sciences (MoES), the Govt. of India, INYAS, and IIC-CUPB organized a series of events on Friday to celebrate World Earth Day 2022. CUPB's Earth Day 2022 Celebrations programme, conducted on the focal theme of "Invest in Our Planet", featured a lecture series by eminent scientists, a geological exhibition, a model/poster presentation, and a logo competition.

The Chief Guest and Guest of Honour of the inaugural session were Padma Shri Prof. Harsh K. Gupta (FTWAS, FNA, FNAsc.) and Prof. Ashok Sahni (FTWAS, FASc., FNA, FNAsc.) respectively. In addition to this, Prof. Jyotiranjana S. Ray, Shanti Swarup Bhatnagar Awardee and Director, NCESS, Trivandrum, and Prof. S.J. Sangode, Savitribai Phule Pune University, Pune, participated as the Guest Speakers for this programme.



Chief Guest Prof. Harsh K. Gupta addressing the participants

While interacting with participants, Chief Guest Prof. Harsh K. Gupta shared his experience of leading the Third Indian Expedition to Antarctica and establishing India's

first Indian scientific research base station named Dakshin Gangotri in Antarctica in 1983-84.

After this, Prof. Ashok Sahni delivered a talk on the topic "Our Wonderful, But Fragile Earth". He shared the history of the evolution of life on earth and discussed the impact of human activities in their



Prof. Ashok Sahni addressing the participants

pursuit of development on increasing the danger of global warming on the world.



Prof. J.S. Ray addressing the participants

Prof. J.S. Ray talked about the two contrasting behaviours of molten lava volcanoes and mud volcanoes located in the Andaman Islands. He emphasized on the use of these volcanic activities in understanding the

dynamics of plate movement.

Prof. S.J. Sangode, while delivering his lecture on the theme "Sustainability Advances the Earth Education", stated that oxygen, water, and food are the three basic elements of metabolic survival, and fetching them without harming the earth is the art of sustainable living. He highlighted the importance of providing fundamental knowledge about the earth at school and higher education levels as proposed in NEP2020 and stressed on the need to adopt a three step awareness, knowledge, and action plan to develop sustainable earth practices.



Prof. S.J. Sangode addressing the participants

In his presidential address, Vice Chancellor Prof. Raghavendra P. Tiwari urged the budding scientists to find innovative solutions for sustainable development. He appealed to youth to commemorate this day by taking a pledge to adopt a sustainable lifestyle and use our natural resources judiciously only for fulfilling essential tasks.



Group Photo of CUPB Vice Chancellor with school students during the Geological Exhibition.

The special attractions of this programme were Model and poster presentations themed on Save the Mother Earth by class VIII –XII students from DPS, Bathinda, GGSIS Maur Mandi, and Wheat Field Public School, Ghudda. On this occasion, the CUPB students also displayed a Geological Exhibition and a poster presentation to promote the message of the adoption of sustainable lifestyle practices to preserve our planet for future generations. Participants appreciated the marvellous work displayed by young students.

At the outset, Dr. J.K. Patnaik, HoD, Dept. of Geology, delivered the welcome address. Dr. Sunil Mittal, Dean, School of Environment and Earth Sciences, introduced the keynote speakers. Research scholars and students from the various departments of the university attended this programme with full enthusiasm.

April 25, 2022: CUPB organized Poster Making Competition on World Malaria Day 2022

To spread awareness about prevention and control of Malaria on World Malaria Day 2022, the Dept. of Microbiology of the Central University of Punjab, under the patronage of Vice Chancellor Prof. Raghavendra P. Tiwari, organized a Poster Making Competition on Monday. Students from different departments of the university participated in this competition.

On this occasion, Prof. Monisha Dhiman, HoD, Dept. of Microbiology, said that malaria is a deadly disease but the prevention and treatment of this disease are possible. She emphasized that social awareness could play a vital role in eradicating this disease. She informed that the WHO slogan for World Malaria Day 2022 is 'Harness Innovation to reduce the malaria disease burden and save lives'. She expressed hope that competition like this will not only sensitise our youngsters but also give them an opportunity to come up with innovative approaches to combat this global disease.

During this competition, youngsters exhibit creative posters to spread awareness about taking antimalarial medicine prescribed when travelling to high-risk areas, keeping our surroundings clean, using insect repellent

skin cream while going out, sleeping under mosquito nets treated with insecticide, and wearing long-sleeved clothing and trousers to cover arms and legs in the evening, when mosquitoes are most active.



CUPB students presenting posters and slogan to spread awareness about Malaria

In this competition, the team of Sakshi and Ankit and team of Satyarath and Sonali got the first and second positions respectively. The team of Rint and Rashmi and team of Kriti and Anuja shared the third position jointly. The participants presented innovative solutions and suggestions to combat malaria in their creative posters, which were well-appreciated by the spectators.

May 25, 2022: Central University of Punjab organized a special lecture on "Sri Guru Granth Sahib Mein Manav Ekta ke Sutra"

The Central University of Punjab, Bathinda (CUPB), under the patronage of Vice Chancellor Prof. Raghavendra Prasad Tiwari, had organized a special lecture on the topic "Sri Guru Granth Sahib Mein Manav Ekta ke Sutra". The keynote speaker of this programme was Padma Shri Prof. (Dr.) Harmohinder Singh Bedi, Chancellor, Central University of Himachal Pradesh.

While introducing the topic of the programme, Dr. Bawa Singh, the programme convener, has mentioned that the holy scripture of Sri Guru Granth Sahib contains

compositions by six Sikh Gurus, 15 Bhagats, 11 Bhattas and four Gurusikhs. The whole philosophy of Sri Guru Granth Sahib has been revolving on the concept of Manav Ekta.

Keynote Speaker Prof. H.S. Bedi mentioned that Sri Guru Granth Sahib is an exclusive sacred scripture of recent times that represents our bhartiya culture and promotes our ancient values with the sutra of Manav Ekta. As this sacred scripture featured the bani of Sikh Gurus as well as the bani of famous saints and bhatts

from all over the country such as Sant Kabir, Namdev Ji, Ramanand Ji, Jai Dev Ji, Ravidas Ji, and others, it provides an opportunity to understand Bharatiya Darshan and philosophy of the great Indian saints from various religious backgrounds. With the compilation of this text, our Sikh Guru Sahibaan provides us the first dialogue of a great Indian literature.



Group Photo of VC Prof RP Tiwari and CUPB faculty with Prof HS Bedi

Prof. H.S. Bedi further stated that the Sri Guru Granth Sahib promotes the sutra of Manav Ekta through the message of "Sarbat Da Bhala." This sutra is reflected in the writings of Sri Guru Nanak such as "Gagan Main

Thaal..." and his teachings "Kirat Karo, Naam Japo, and Vand Chhako". He asserted that UNESCO has decided to translate the Bani of the founder of Sikhism, Sri Guru Nanak, and other saints featured in Sri Guru Granth Sahib into the famous languages of the world to promote the message of peace, truthfulness, love, compassion, and universal brotherhood.

In his presidential address, Vice Chancellor Prof. Raghavendra Prasad Tiwari expressed his gratitude towards the esteemed speaker for sharing words of wisdom. He also thanked Prof. Bedi for donating valuable books on Sikh history and literature to the University Library, to spread awareness about the philosophy of the great Sikh Gurus among students.

At the outset, Prof. R.K. Wusirika, Dean Incharge Academics, delivered a welcome address. Towards the end, Prof. H.S. Pannu, Chair Professor, Sri Guru Gobind Singh Ji Chair, delivered a formal vote of thanks. Faculty, officers, and students from various departments attended this programme.

May 27, 2022: Central University of Punjab organized a special session under 16th National Youth Parliament Competition

The Central University of Punjab, Bathinda (CUPB) organized a special session of the 16th National Youth Parliament (A University Level Competition) under the aegis of the Ministry of Parliamentary Affairs, at its campus on Friday.

The objective of this competition is to strengthen the roots of democracy among the youth and to enable the student community to know about the practices and procedures of the Parliament.



Glimpses of National 16th Youth Parliament Session at CUPB

The event that was conducted under the patronage of the Vice Chancellor Prof. Raghavendra P. Tiwari, had eminent panellists consisting of Prof. Shalini Sharma, Ministry Group Coordinator, 16th National Youth Parliament, Shri Raj Dev Singh Khalsa, Former MP, and

Shri Mandeep Singh, Regional Coordinator, MGSIPA. The Jury members praised the vibrant and spectacular performance of the students.

In the session of 54 minute duration, the CUPB students showcased excellent oratory and elocution skills by presenting 10 agenda items related to parliamentary proceedings like Oath taking, Obituary, Introduction of New Ministers, Question Hour, Breach of Privilege, Papers laid, Message from Upper House, Welcoming Foreign Delegates, Calling Attention Motion, Short duration discussion, and Legislative Process.



Group Photo of Participants of 16th National Youth Parliament Session organized at CUPB

On this occasion, Prof. R.K. Wusirika, Dean Incharge Academics, expressed his gratitude towards the jury

members. He stated that this initiative of the Ministry of Parliamentary Affairs will spread awareness of the democratic value system and inspire youngsters to play an important role in the smooth implementation of parliamentary procedures.

Prof. Tarun Arora, Programme Convener, congratulated participants for their illustrious performance and expressed hope that, like previous years, CUPB students will make a mark in the 16th National Youth Parliament Competition and bring laurels to the university.

Towards the end, jury members shortlisted six best speakers for special appreciation by the Ministry of Parliamentary Affairs, including Gracy Sharma, Anuj Pratap Singh, Abhijit Nayek, Shivani Thakur, Gaurav Kumar, and Mukesh Kumar.

Prominent among the others who attended this programme were Prof. Vinod Kumar Garg, Dean Student Welfare, and Prof. Anjana Munshi, Director Research and Development Cell. Faculty, staff, and students attended this programme.

May 26--30, 2022: International Quiz Competition and Documentary Screening organized under Biodiversity Conservation Awareness Campaign at Central University of Punjab

The Department of Environmental Science and Technology at the Central University of Punjab, Bathinda (CUPB), in collaboration with the National Biodiversity Authority and Punjab Biodiversity Board, Chandigarh, organized a five-day Day Biodiversity Conservation Campaign from 26th May, 2022 to 30th May, 2022.

Throughout the campaign, various activities, such as quiz contests and documentary screenings, were organised to raise awareness about biodiversity conservation among young people under the theme "Building a shared future for all life."

The awareness campaign kicked off with an International Quiz Competition moderated by Prof. Felix Bast wherein youngsters from India and several other countries registered and answered questions on Indian biodiversity. Aseema Parida (Odisha), Medhasree Sanyal (West Bengal), and Suraj Sharma (New Delhi) got the first, second, and third prizes, respectively, in this competition.

As a part of this campaign, the organizers hosted special screenings of two documentary movies, i.e. Delhi Safari and Endgame 2050 to encourage youngsters to work for the protection of the ecological system.

On the concluding day, a special quiz competition on Biodiversity was organized for university students during which the team of Akash, Nabanita and Vidhi obtained the first positions.

On this occasion, Vice Chancellor Prof. Raghavendra P. Tiwari, stressed how the most intelligent species on earth, the Homosapiens, are destroying the habitats of their own and other species and emphasized the need

to work for biodiversity conservation. He encouraged CUPB students to sensitise their friends and family members about the adoption of sustainable lifestyle practices.



Vice Chancellor Prof R.P. Tiwari addressing the participants

After this, Prof. Vinod Kumar Garg, Dean Student Welfare, and Dr. Sunil Mittal, Dean, School of Environment and Earth Sciences, highlighted the importance of biodiversity conservation.

Towards the end, Dr. Yogalakshmi KN, HoD, Dept. of Environmental Science and Technology, thanked students for their active participation in this five-day campaign.

On this occasion, Dr. Dhanya MS, Dr. Puneeta Pandey, Dr. Ajay Kumar, and other faculty members of the School were present. Research scholars, students, staff and their family members attended the documentary screening.

NSS / IPR Cell / Azadi Ka Amrit Mahotsav Activities

April 13, 2022: Central University of Punjab organized Blood Donation Camp in the memory of "Martyrs of Jallianwala Bagh Massacre"

The NSS Cell of the Central University of Punjab, in coordination with Civil Hospital, Bathinda, organized a Blood Donation Camp at the university campus in the memory of the "Martyrs of Jallianwala Bagh Massacre" on April 13, 2022. Around 150 students, faculty, and staff members registered as donors for this camp.

On this occasion, the medical team of Civil Hospital Bathinda, under the leadership of Dr. Richika (MD, Pathology), visited the CUPB campus. The doctors of Civil Hospital checked the haemoglobin and other eligibility parameters of the donors before they donated blood. Approximately 105 units of blood were collected in the camp.



VC Prof RP Tiwari and CUPB faculty conveying their blessings to the blood donors

The Blood Donation Camp commenced with a blood donation by the Vice Chancellor, Prof. Raghavendra P. Tiwari. After this, the faculty, staff members, and students donated blood following a medical examination by experts.

Of registered donors, around 1/3rd of them donated blood for the first time in this camp. The donors were given certificates and refreshments after blood donation. To make the blood donation more convenient for donors, the organizers invited donors in different time slots.

During this programme, Prof. Raghavendra P. Tiwari, the Vice Chancellor, Prof. B.P. Garg, Controller of Examination and Registrar (Officiating), Prof. Monisha Dhiman, Director IQAC, and Prof. Anjana Munshi, Dean Research, Prof. Deepak Chauhan, NSS Programme Coordinator, and Dr. Rishi Mishra, University Medical Officer, gave their blessings to the blood donors.

Prof. R.P. Tiwari congratulated the students, faculty, and staff members for registering as donors in large numbers for this blood donation camp organized to pay tribute to the freedom fighters and martyrs of the Jallianwala Bagh massacre. He stated that this blood donation camp is an initiative for a noble cause to save the lives of needy persons. Besides, it inculcates the spirit of fellow feeling and brotherhood among the youngsters and develops a strong connection with the society.

Towards the end, Dr. Narendra, NSS Programme Officer, expressed his gratitude towards the medical team of Civil Hospital Bathinda and appreciated the efforts of NSS Volunteers for the successful execution of this programme.

April 27, 2022: Central University of Punjab celebrated World IP Day 2022 by organizing a workshop on "Intellectual Property Rights and Entrepreneurship"

The Intellectual Property Right Cell and Institution's Innovation Council (IIC) of Central University of Punjab, Bathinda, in collaboration with the Punjab State Council for Science & Technology, Chandigarh, and the Dept. of Science and Technology, GoI, celebrated World IP Day

with a special programme. On this occasion, a "Workshop on Intellectual Property Rights (IPRs) and Entrepreneurship" was held. The keynote speaker for this workshop was Dr. Ashutosh Pastor, Sr. Manager and Head, Incubation, FIIT, Indian Institute of Technology,

Delhi. Around 200 students from different departments of the university attended this workshop.

While addressing the participants, Dr. Ashutosh Pastor shared entrepreneurship opportunities available in academia. He discussed the socio-economic impacts of entrepreneurship and highlighted that India has witnessed a rapid diffusion of entrepreneurship in the last five years. He introduced various incubation units of FIIT, including TBIU—Now NIDHI CoE (DST); Atal Incubation Center (AIM-NITI); and BioNEST (BIRAC), and discussed the role of incubators in providing the necessary support to start-ups right from the idea stage, product development stage, and go-to-market stage. He informed that Incubator Tech Transfer Offices helps the start-up with IP filings and management; industry mapping; market understanding; product development support; and spin-off formulation. He stressed that the Ministry of Education’s National Innovation and Start-Up Policy and various government schemes such as the DST Nidhi Seed Support Scheme, BIRAC Seed Fund, DeitY multiplier grants scheme, ReVolution-a startup scheme especially designed by DST for women entrepreneurs, etc., aim to encourage academia to develop technology/products and processes. The start-up promoters need to identify their problem statement, market share they are targeting, business model, and put together a team of technology and business experts before presenting their proposal to the investors. Participants discussed their queries with the guest speaker during a Q & A session.



Workshop Organizers felicitating the keynote speaker Dr. Ashutosh Pastor

Dr. Preeti Khetarpal, Convener, IPR Cell, gave an overview of different forms of IPRs, namely patents, trademarks, industrial designs, geographical indications, and copyright. She presented the university's intellectual property policy and encouraged researchers to always file IPR before publishing their innovations in peer-reviewed journals.

At the outset, Prof. Amandeep Kaur welcomed the participants and introduced the guest speaker, Prof. Raj Kumar, Chairman, IPR, expressed his gratitude towards the guest speaker and encouraged the youngsters to aim to become entrepreneurs. Dr. Jitendra Patnaik, Vice-President, IIC, gave a formal vote of thanks towards the end of this programme.

May 11, 2022: Minister of State for Housing and Urban Affairs, Shri Kaushal Kishore, inspired CUPB students to contribute in making drug-free India

The NSS Cell of the Central University of Punjab, Bathinda (CUPB), in association with Nasha Mukta Samaj Abhiyaan Kaushal Ka, organized a webinar on "Alcohol and Drug Addiction" on Tuesday. The Hon'ble Minister of State for Housing and Urban Affairs, Shri Kaushal Kishore participated in this webinar as the Chief Guest and emphasised the need to eradicate the menace of drug addiction.

While addressing the participants, Shri Kaushal Kishore stated that drug abuse is a social evil that takes the lives of thousands of people every year. Drug abuse has been a serious concern not only for the state of Punjab but the country at large, as youngsters in our country are being pushed into drug and liquor addiction due to drug trafficking. He suggested that every responsible citizen should make people aware of the harmful effects of alcohol and drugs to combat drug addiction and to create an intoxication-free and disciplined society.



Hon'ble Minister of State for Housing and Urban Affairs Shri Kaushal Kishore addressing the participants

On this occasion, Shri Kaushal Kishore administered the Say Yes to Life and No to Drugs Pledge to participants. He encouraged CUPB students to contribute to accomplishing the mission of Nasha Mukta Bharat by spreading awareness among their friends and family members about the ill-effects of drugs and inspiring at least one drug addict a month to say no to drugs.

During the programme, Vice Chancellor Prof. Raghavendra P. Tiwari expressed his gratitude towards the Chief Guest. He assured that the university administration would take necessary steps to spread awareness about drugs among the youth of the region.

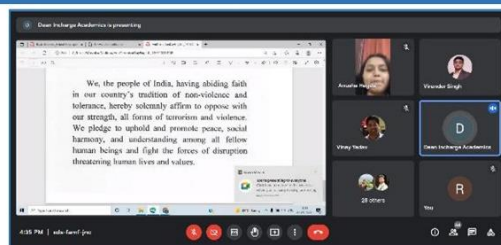
At the outset, Prof. Deepak Chauhan, NSS Programme Coordinator, welcomed the participants. Shri Akshant Kant, Programme Conovener, Nasha Mukta Samaaj

Abhiyaan Andolan Kaushal Ka, introduced the distinguished speaker. Towards the end, Prof. Vinod K. Garg, Dean Students Welfare, gave a formal vote of thanks. Faculty, research scholars and students from different departments of the university virtually attended this programme.

May 21, 2022: Anti Terrorism Day observed at Central University of Punjab

The NSS Cell of the Central University of Punjab, Bathinda (CUPB) under the patronage of Vice Chancellor Prof. Raghavendra P. Tiwari observed 'Anti-Terrorism Day' on 21st May, 2022 to promote the message of peace, social harmony, non-violence, tolerance, humanity and unity among university students, employees and society.

On this occasion, CUPB faculty, staff, students and NSS Volunteers under the leadership of Dean Incharge Academics Prof. R.K. Wusirika took 'Anti-Terrorism Pledge' to oppose all forms of terrorism and fight the forces of disruption threatening human lives and values.



Glimpses of Pledge Ceremony

Faculty, staff members, NSS Volunteers and students of the university attended this programme through online mode.

Webinars / Seminars / Special Lectures

April 11, 2022: Awareness Session cum Blood Stem Cell Donor Registration Drive organized at Central University of Punjab

The Department of Microbiology of the Central University of Punjab, under the patronage of Vice Chancellor Prof. Raghavendra P. Tiwari, organized an Awareness Session cum Blood Stem Cell Donor Registration Drive. The special guest of this programme was Ms. Anuradha Tandon, Senior Associate – Partnerships & Medical Affairs, DATRI.

During the programme, Ms. Anuradha Tandon stated that there are around 1.5 lakh thalassemia patients in India and that around 1 lakh of them die before the age of 20 due to lack of access to treatment. Further, as per ICMR reports, around 1.32 lakh cases of blood and lymphatic disorders are expected to be diagnosed every year in our country. She said that bone marrow and stem cells are being used to treat a wide variety of serious blood and bone marrow diseases, such as anaemia and



Ms. Anuradha Tandon addressing the participants

leukaemia. thalassemia, myeloma etc. She asserted that ethnicity plays an important role in finding an unrelated blood stem cell donor, and to address this issue India needs its own registry with Indian donors.

Ms. Anupama Tandon mentioned that DATRI, India's largest blood stem cell donor registry, is a not-for-profit organisation (founded in 2009) that has more than 4,72,251 donors registered to date and facilitated 945 blood stem cell donations to patients with leukaemia, thalassemia or blood disorders. She urged healthy individuals between the ages of 18 and 50 to

register with DATRI and potentially become lifesavers when they're found to be a match for a fatal blood disorder patient.

The programme was attended by around 50 students and faculty members out of whom 10 registered to

voluntarily donate their blood stem cells to needy patients.

April 14, 2022: Central University of Punjab organized a webinar on Dr. B.R. Ambedkar: The Vision for India

To commemorate the 131st birth anniversary of Bharat Ratna Babasaheb Dr. Bhimrao Ambedkar, the Dept. of History of the Central University of Punjab, under the patronage of Vice Chancellor Prof. Raghavendra P. Tiwari, organized a webinar on the topic of "Dr. Bhimrao Ramji Ambedkar: The Vision for India". The Chief Speaker of this programme was Padma Shri Dr. Milind Kamble, a civil engineer, entrepreneur and founder of the Dalit Indian Chamber of Commerce and Industries (DICCI).

While addressing the participants, Padma Shri Dr. Milind Kamble mentioned that Babasaheb Ambedkar was the chief architect of Indian Constitution, an acclaimed economist, a legendary statesman, and a great social and political reformer. He stated that Dr. Ambedkar gave us social, political, religious, and educational legacy through the establishment of various institutions during his life, such as Samta Sainik Dal, the Republican Party of India, the Buddhist Society of India, the People's Education Society, and others for the betterment of youth in Indian society and for nation-building.

He spoke about his journey of starting DICCI in 2005 to fulfil Dr. Ambedkar's vision of economic empowerment of SC and ST youth through self-help and entrepreneurship. He added that the objective of DICCI is to develop SC/ST business leadership and promote entrepreneurship among dalits as a solution to their socio-economic needs. He also spoke about the schemes launched by DICCI innovation and entrepreneurship

among SC/ST youth. He shared that DICCI is working as an implementation partner with the Ministry of Social Justice and Empowerment in organizing various activities such as AYE League 2022, Dr. Ambedkar's Business Excellence Awards 2022, etc. under the Ambedkar Social Innovation & Incubation Mission (ASIIM) to support 1000 startups of SC youth.



Padma Shri Dr. Milind Kamble addressing the participants

At the outset, Dr. Hareet Meena, HoD, Dept. of History, welcomed the participants, shared the programme theme and introduced the keynote speaker. Dr. Vikas Rathee expressed his gratitude towards the chief speaker. He gave a formal vote of thanks at the end of the programme. Students, research scholars, and faculty members from different departments of the university virtually attended this programme.

April 29, 2022: CUPB celebrated the International Day of Immunology with a lecture series, Talk your View session, Poster making and quiz competitions

Under the aegis of the Indian Immunology Society (IIS), the Department of Biochemistry at Central University of Punjab celebrated "International Day of Immunology" by organizing a special programme featuring a lecture-series, a "talk your view" session, poster making and quiz competitions on the focal theme "Immunity and Vaccine" on April 29, 2022. On this occasion, faculty and

students from Meritorious School, Bathinda, visited the CUPB campus to attend this programme.

At the outset, Dr. Manju Jain, the programme convener, welcomed the participants. She stated that the objective of International Immunology Day celebrations is to raise public awareness about the capabilities of the immune system in health and disease. She delivered an

introductory talk on "Our Immune Arsenal: How it looks and works" to develop a basic understanding of the subject. She discussed different components of the immune system in terms of innate and adaptive immunity, where and how different immune cells develop in the body, how they work and sense different danger signals from outside. She concluded by emphasizing the importance of basic immunological concepts in driving research studies related to different infectious diseases like SARS Cov2 mediated Covid.



Dr. Ayan Day addressing the participants

The second lecture of the programme was delivered by Dr. Ayan Day, Vaccine Scientist, Zydus Group, on the topic "Vaccine Development: Immunological Perspective". He stated that the process of vaccine manufacturing requires several years as it has to undergo various stages such as discovery, pre-clinical, Phase-I safety, Phase-II safety, Phase III – Efficacy, and Commercial Production. He emphasized that different types of infections may necessitate different vaccines.



Dr. Kamal Kant addressing the participants

In the third lecture, Dr. Kamal Kant, MD, Microbiology, AIIMS, Bathinda, talked about the ongoing vaccine fight with SARS-CoV2. He mentioned that India is currently using four different kinds of vaccines, i.e. Covishield, Covaxin, Sputnik V, and Corbevax. He stated that, despite the slow vaccination response of the Indian population, the GoI has administered 186 crore vaccine

doses to date, with 85 percent of the population fully vaccinated. He asserted that the current challenge for the scientific community is to counter further mutations of the COVID virus and combat the upcoming fourth wave.

After this, Dr. Rubal Kanozia from the CUPB Dept. of Mass Communication and Media Studies delivered the fourth talk on the topic "Vaccine Hesitancy: Misinformation and Disinformation." He shared that the conspiracy theories related to COVID vaccines and other mis/disinformation statements such as: vaccines will alter our DNA, it will make us infertile, I am healthy enough and have no need for vaccines, etc., have contributed towards vaccine hesitancy among people of India and abroad. He urged youngsters to always get health-related information from credible sources such as WHO, MoHFW, ICMR, etc. and never believe in unscientific claims. He demonstrated the usability of Google Reverse Image Search and InVid tools to debunk fake news.



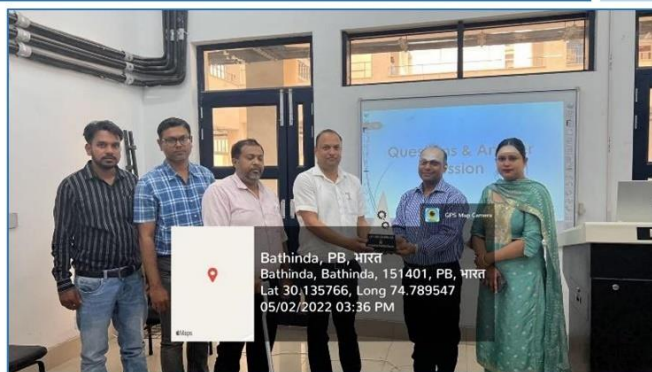
Glimpses of Prize Distribution Ceremony

On this occasion, students showcase their talent in oratory competitions, poster making competitions, and quiz competitions. Miss Kriti and Miss Yogita stood as winners in the Talk Your View session for their outstanding performance, Mr. Arshpreet Singh, Miss. Sanveer Kaur, and Miss Jaspinderjeet Kaur were awarded for their outstanding performance in the poster making competition. In the quiz competition, 1st place was taken by the team of Miss Priya Rani, Miss Hapreet Kaur, Miss Handeep Kaur, and Miss Priyanka Dholpuria, and the runner-up team included Miss Bhawna, Miss Gajalpreet, Miss Manisha, and Miss Hemlata. The students showed much zeal and curiosity in all the activities.

May 2, 2022: Invited Talk on Entrepreneurship Opportunities for Pharmacy Graduates organized at Central University of Punjab

The Department of Pharmacology of the Central University of Punjab, Bathinda (CUPB) under the patronage of Vice Chancellor, Prof. Raghavendra P. Tiwari organized a Lecture to inculcate Invited talk on “Entrepreneurship Opportunities for Pharmacy Graduates” on May 2, 2022. The Speaker of this program was Mr. Sumit Wadhwa, Director Princeton Health Private Limited, Gurgaon. At the beginning of the event, Dr. Puneet Kumar, Associate Professor and Head, Department of Pharmacology, CUPB, welcomed all the participants and introduced Speaker, Mr. Wadhwa to the participants.

Mr. Wadhwa presented a brief lecture on Entrepreneurship Opportunities for Pharmacy Graduates. He elaborated various opportunities and challenges faced by an individual while going for a start-up. He encouraged the young students to cope up with personal, financial, and societal problems coming on the way of establishing a startup. He briefly discussed different application softwares that pharmacy students may encounter in their life. He also emphasized on several medical devices including LVAD (Left Ventricular Assist Device) that was quite beneficial and informative.



Organizers felicitating Invited Speaker

At the end, the speaker was presented a token of appreciation by Dr. Puneet Kumar, Head of the Department, along with all the faculty members of the Department of Pharmacology. Around 50 students from different courses including M. Pharm. (Pharmaceutical Chemistry and Pharmacognosy) and M.Sc. (Medicinal Chemistry) were present in the lecture. The Lecture was very informative which would benefit the students in their career.

May 11, 2022: CUPB organized a special lecture on ‘Sahitya Perspective on Literature: Exploring Indigenous Traditions’

The Department of History of the Central University of Punjab, Bathinda (CUPB), under the patronage of Vice Chancellor Prof. Raghavendra P. Tiwari, organized a special lecture on ‘Sahitya Perspective on Literature: Exploring Indigenous Traditions’. The keynote speaker of this programme was Dr. Balram Shukla, Associate Professor, Department of Sanskrit, University of Delhi.

While addressing the participants, Dr. Balram Shukla stated that in the discipline of history, the translation of technical terms from one language to another, and the application of concepts from one tradition to another, create complications. This is because special words originated under different cultural circumstances have a substantial difference in their semantics when applied to other cultures and there is a lack of substituted words in other languages that convey the same expression. This is why examples of translation are rarely found in ancient Indian literature, and Indian knowledge traditions taught us about the concept of transformation rather than translation.

In his talk, Dr. Balram Shukla explores the questions of the relationship of our modern terminology with the reality of past social and cultural formations in the domain of literature. He defined that the word Sahitya conveys the meaning of literature, which is of everyone’s interest and beneficial for all. He added that in the real sense, Sahitya is above differential ideologies. It is something that gives comfort to the author and the reader/audience from different backgrounds. The distinguished speaker quoted extensively from Sanskrit, Persian, Punjabi, Hindi, and Urdu poetry in support of his contentions.



Dr Balram Shukla addressing the participants

At the outset, Dr. Harit Meena, HoD, Dept. of History, welcomed the participants. Dr. Vikas Rathee introduced the distinguished speaker. Prof. Kuldip Singh expressed his gratitude towards Dr. Balram Shukla for enlightening the participants with his words of wisdom. Prominent among the others was Punjabi poet Dr. Neetu Arora and

her students from University College Ghudda. Towards the end, Dr. Ashwani Kumar and Dr. Rajni Sahota thanked everyone for making this programme a success.

हिंदी अनुभाग

06 मई, 2022: पंजाब केन्द्रीय विश्वविद्यालय में 'मध्यकालीन काव्य में राष्ट्रीय चेतना' विषय पर विशेष व्याख्यान का आयोजन

पंजाब केन्द्रीय विश्वविद्यालय के हिंदी विभाग द्वारा दिनांक 06 मई, 2022 को अपराह्न 03:00 बजे संगोष्ठी कक्ष में 'मध्यकालीन काव्य में राष्ट्रीय चेतना' विषय पर विशेष व्याख्यान का आयोजन किया गया। इस व्याख्यान हेतु मुख्य वक्ता के रूप में महर्षि दयानंद विश्वविद्यालय, रोहतक के हिंदी विभाग से प्रोफेसर संजीव कुमार जी सम्मिलित हुए।



प्रोफेसर संजीव कुमार प्रतिभागियों का सम्बोधित करते हुए

अपने व्याख्यान में प्रोफेसर संजीव कुमार ने मध्यकालीन काव्य की परिस्थितियों को स्पष्ट करते हुए मध्यकालीन काव्य परंपरा से श्रोताओं अवगत करवाया। मध्यकाल के दोनों काल खण्डों भक्तिकाल और रीतिकाल में निहित मूल्यों पर प्रकाश डालते हुए उन्होंने तत्कालीन समाज में राष्ट्र की संकल्पना

और राष्ट्रीयता के भाव को उजागर किया। उन्होंने मध्यकालीन कविता में निहित राष्ट्रीयता के भाव को कवियों की कविताओं

के माध्यम से समकालीन परिवेश के अनुरूप विश्लेषित किया। तत्कालीन समय में देश की एकता और विदेशी आक्रान्ताओं से भारतभूमि को मुक्त करने के भाव को भी प्रमुखता से उठाया। जहाँ एक ओर भक्तिकाल के कवियों ने विदेशी आक्रान्ताओं का गुणगान न करके जनमानस के मुद्दों को उठाया वहीं उत्तरमध्यकाल के कवियों ने देसी राजाओं की वीरता और पराक्रम का अनूठा वर्णन किया है। प्रोफेसर संजीव कुमार ने कहा कि इस काल खंड के कवियों द्वारा राजाओं के मन में विदेशी सत्ता से लड़ने का भाव भरने का प्रयास किया है।

कार्यक्रम के उपरान्त अध्यक्षीय उद्बोधन में डॉ. राजेन्द्र कुमार सेन ने मध्यकालीन राष्ट्रीय चेतना विषय के विविध आयामों पर प्रकाश डाला। कार्यक्रम का संचालन डॉ. कुलभूषण शर्मा, सहायक आचार्य तथा धन्यवाद ज्ञापन डॉ. अमित कुमार सिंह कुशवाहा ने किया।

इस कार्यक्रम में विभाग के शिक्षकों, शोधार्थियों तथा विद्यार्थियों के अतिरिक्त अन्य विभाग के छात्रों ने भी सहभागिता की।

ਪੰਜਾਬੀ ਸੈਕਸ਼ਨ

3 ਮਈ, 2022: ਪੰਜਾਬ ਕੇਂਦਰੀ ਯੂਨੀਵਰਸਿਟੀ ਵਿਖੇ "ਕਵਿਤਾ ਅਤੇ ਭਾਸ਼ਾ" ਬਾਰੇ ਵਿਸ਼ੇਸ਼ ਭਾਸ਼ਣਾਂ ਦਾ ਆਯੋਜਨ

ਪੰਜਾਬ ਕੇਂਦਰੀ ਯੂਨੀਵਰਸਿਟੀ ਦੇ ਪੰਜਾਬੀ ਵਿਭਾਗ ਵਿਖੇ ਵਿਦਿਆਰਥੀਆਂ ਦੇ ਅਕਾਦਮਿਕ ਵਿਕਾਸ ਲਈ ਮਿਤੀ 2 ਮਈ, 2022 ਨੂੰ ਦੋ ਵਿਸ਼ੇਸ਼ ਭਾਸ਼ਣਾਂ ਦਾ ਆਯੋਜਨ ਕੀਤਾ ਗਿਆ। ਇਸ ਮੌਕੇ ਦਿੱਲੀ ਯੂਨੀਵਰਸਿਟੀ, ਦਿੱਲੀ ਦੇ ਪੰਜਾਬੀ ਵਿਭਾਗ ਦੇ ਪ੍ਰੋਫੈਸਰ ਅਤੇ ਸਾਹਿਤਕ ਯੂ-ਟਿਊਬ ਚੈਨਲ ਮੁਖਨਲੋਕ ਦੇ ਰੂਹ-ਰਵਾਂ ਪ੍ਰੋ. ਕੁਲਵੀਰ ਗੋਜਰਾ ਅਤੇ

ਉੱਘੇ ਭਾਸ਼ਾ ਵਿਗਿਆਨੀ ਅਤੇ ਪੰਜਾਬ ਯੂਨੀਵਰਸਿਟੀ ਰਿਜਨਲ ਸੈਂਟਰ, ਸ੍ਰੀ ਮੁਕਤਸਰ ਸਾਹਿਬ, ਦੇ ਪ੍ਰੋਫੈਸਰ ਅਤੇ ਸਾਬਕਾ ਡਾਇਰੈਕਟਰ ਡਾ. ਪਰਮਜੀਤ ਸਿੰਘ ਢੀਂਗਰਾ ਵਿਸ਼ੇਸ਼ ਤੌਰ ਤੇ ਯੂਨੀਵਰਸਿਟੀ ਦੇ ਪਿੰਡ ਘੁੰਦਾ ਵਿਖੇ ਸਥਿਤ ਮੈਨ ਕੈਂਪਸ ਵਿਖੇ ਪਹੁੰਚੇ ਅਤੇ ਵਿਦਿਆਰਥੀਆਂ ਨਾਲ ਆਪਣੇ ਮੁਲਵਾਨ ਵਿਚਾਰ ਸਾਂਝੇ ਕੀਤੇ।



ਪ੍ਰੋ. ਕੁਲਵੀਰ ਗੋਜਰਾ ਭਾਗੀਦਾਰਾਂ ਨੂੰ ਸੰਬੋਧਿਤ ਕਰਦੇ ਹੁੰਦੇ

ਪ੍ਰੋ. ਗਰਾਮ ਦੇ ਪਹਿਲੇ ਹਿੱਸੇ ਵਿੱਚ ਪ੍ਰੋ. ਕੁਲਵੀਰ ਗੋਜਰਾ ਨੇ ਆਧੁਨਿਕ ਪੰਜਾਬੀ ਕਾਵਿ-ਸਿਰਜਣਾ ਦੇ ਆਧਾਰ ਵਿਸ਼ੇ ਤੇ ਵਿਸ਼ੇਸ਼ ਭਾਸ਼ਣ ਦਿੱਤਾ। ਉਨ੍ਹਾਂ ਕਿਹਾ

ਕਿ ਕੋਈ ਵੀ ਕਵੀ ਪੂਰਨ ਰੂਪ ਵਿੱਚ ਆਪਣੇ ਆਲੇ ਦੁਆਲੇ ਤੋਂ ਸੁਤੰਤਰ ਨਹੀਂ ਹੋ ਸਕਦਾ, ਇਸ ਲਈ ਕਵਿਤਾ ਨੂੰ ਸਮਝਣ ਲਈ ਉਸਦੇ ਪਿੱਛੇ ਪਏ ਵਿਚਾਰਧਾਰਾਈ ਵਰਤਾਰਿਆਂ ਨੂੰ ਜਾਣਨਾ ਤੇ ਸਮਝਣਾ ਬਹੁਤ ਜ਼ਰੂਰੀ ਹੈ। ਪੰਜਾਬੀ ਆਲੋਚਨਾ ਨੇ ਬਹੁਤ ਕੁਝ ਪੱਛਮੀ ਚਿੰਤਨ ਪ੍ਰਣਾਲੀਆਂ ਤੋਂ ਗ੍ਰਹਿਣ ਕੀਤਾ ਹੈ, ਪ੍ਰੰਤੂ ਇਸਦੇ ਬਾਵਜੂਦ ਪੰਜਾਬੀ ਜਾਂ ਭਾਰਤੀ ਸੰਦਰਭ ਦੀਆਂ ਆਪਣੀਆਂ ਵਿਸ਼ੇਸ਼ਤਾਵਾਂ ਹਨ ਜਿਨ੍ਹਾਂ ਨੂੰ ਇੱਥੋਂ ਦੇ ਪਰਿਪੇਖ ਤੇ ਪ੍ਰਸੰਗ ਵਿੱਚ ਹੀ ਸਮਝਣ ਦੀ ਜ਼ਰੂਰਤ ਹੈ। ਇਸੇ ਲਈ ਆਧੁਨਿਕ, ਆਧੁਨਿਕਤਾ, ਆਧੁਨਿਕਤਾਵਾਦ ਵਰਗੇ ਸੰਕਲਪ ਵੀ ਵੱਖੋ-ਵੱਖਰੇ ਸਮਾਜਾਂ ਵਿੱਚ ਵੱਖੋ-ਵੱਖਰੇ ਅਰਥ ਰੱਖਦੇ ਹਨ। ਪ੍ਰੋ. ਕੁਲਵੀਰ ਗੋਜਰਾ ਨੇ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਪਾਠਕ ਅਤੇ ਆਲੋਚਕ ਦੇ ਤੌਰ ਤੇ ਆਪਣੀ ਵਿਸ਼ੇਸ਼ ਪਹੁੰਚ ਵਿਕਸਤ ਕਰਨ ਲਈ ਪ੍ਰੇਰਿਤ ਕਰਦੇ ਹੋਏ ਕਿਹਾ ਕਿ ਕਿਸੇ ਰਚਨਾ ਨੂੰ ਪੜ੍ਹਦੇ ਹੋਏ ਉਸ ਬਾਰੇ ਪਹਿਲਾਂ ਪ੍ਰਚਲਿਤ ਧਾਰਨਾਵਾਂ ਤੋਂ ਸੁਤੰਤਰ ਹੋ ਕੇ ਪੜ੍ਹਨ-ਸੋਚਣ ਨਾਲ ਹੀ ਕੋਈ ਨਵੇਂ ਵਿਚਾਰ ਸਾਹਮਣੇ ਆ ਸਕਦੇ ਹਨ।

ਦੂਜੇ ਵਿਸ਼ੇਸ਼ ਭਾਸ਼ਣ ਵਿੱਚ ਪ੍ਰੋ. ਪਰਮਜੀਤ ਸਿੰਘ ਢੀਂਗਰਾ ਨੇ 'ਧਾਤੂਆਂ ਤੋਂ ਸ਼ਬਦ ਉਤਪਤੀ ਦਾ ਸਫ਼ਰ' ਵਿਸ਼ੇ ਤੇ ਆਪਣੇ ਵਿਚਾਰ ਸਾਂਝੇ ਕੀਤੇ। ਉਨ੍ਹਾਂ ਨੇ ਮੱਧਕਾਲੀ ਪੰਜਾਬੀ ਸਾਹਿਤ ਵਿੱਚ ਮੌਜੂਦ ਗੁਰਬਾਣੀ ਦੇ ਬਹੁ-ਭਾਸ਼ਾਈ ਮਾਡਲ ਦੇ ਹਵਾਲੇ ਨਾਲ ਵੱਖ ਵੱਖ ਭਾਸ਼ਾਵਾਂ ਤੋਂ ਆਏ ਸ਼ਬਦਾਂ ਪ੍ਰਤੀ

ਵਰਤਮਾਨ ਮਨੁੱਖ ਦੇ ਮਨਾਂ ਵਿੱਚ ਪੈਦਾ ਹੁੰਦੇ ਤੌਖਲੇ ਨੂੰ ਦੂਰ ਕਰਨ ਦਾ ਯਤਨ ਕੀਤਾ। ਉਨ੍ਹਾਂ ਕਿਹਾ ਕਿ ਦੂਜੀਆਂ ਭਾਸ਼ਾਵਾਂ ਤੋਂ ਸ਼ਬਦ ਗ੍ਰਹਿਣ ਨਾਲ ਕਦੇ ਵੀ ਕਿਸੇ ਭਾਸ਼ਾ ਦਾ ਕੋਈ ਨੁਕਸਾਨ ਨਹੀਂ ਹੁੰਦਾ, ਸਗੋਂ ਉਹ ਵਧੇਰੇ ਸਮਰੱਥ ਹੁੰਦੀ ਹੈ। ਸਮੱਸਿਆ ਤਾਂ ਉਦੋਂ ਪੈਦਾ ਹੁੰਦੀ ਹੈ, ਜੇ ਕੋਈ ਭਾਸ਼ਾ ਕਿਸੇ ਹੋਰ ਭਾਸ਼ਾ ਦੀ ਵਾਕ ਬਣਤਰ ਅਪਣਾ ਲਵੇ। ਉਨ੍ਹਾਂ ਕਿਹਾ ਕਿ ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਦੀ ਸ਼ਬਦਾਵਲੀ ਪੁਰਤਗਾਲੀ, ਸੰਸਕ੍ਰਿਤ, ਫਾਰਸੀ, ਪ੍ਰਾਕ੍ਰਿਤ ਅਤੇ ਅਪਭ੍ਰੰਸ਼ਾਂ ਆਦਿ ਅਨੇਕ ਭਾਸ਼ਾਵਾਂ ਵਿੱਚੋਂ ਆਈ ਹੈ ਅਤੇ ਪੰਜਾਬੀ ਦੇ ਵਿਸ਼ਾਲ ਸ਼ਬਦ-ਭੰਡਾਰ ਵਿਚਲੇ ਲੱਖਾਂ ਸ਼ਬਦ ਸਾਡੀਆਂ ਉਪ-ਭਾਸ਼ਾਵਾਂ ਤੇ ਉਪ-ਬੋਲੀਆਂ ਵਿੱਚ ਪਏ ਹੋਏ ਹਨ। ਉਨ੍ਹਾਂ ਸਪੱਸ਼ਟ ਕੀਤਾ ਕਿ ਅੰਗਰੇਜ਼ੀ ਦੇ ਗਲੋਬਲ ਭਾਸ਼ਾ ਬਣਨ ਦਾ ਕਾਰਨ ਹੀ ਇਹੀ ਹੈ ਕਿ ਉਹ ਆਪਣੀ ਸਰੋਤ ਭਾਸ਼ਾਵਾਂ ਗਰੀਕ ਅਤੇ ਰੋਮਨ ਦੇ ਨਾਲ ਨਾਲ ਲਗਭਗ 300 ਭਾਸ਼ਾਵਾਂ ਦੇ ਸ਼ਬਦ ਆਪਣੇ ਵਿੱਚ ਸਾਂਭੀ ਬੈਠੀ ਹੈ ਤੇ ਰੋਜ਼ਾਨਾ ਅਨੇਕਾਂ ਹੋਰਨਾਂ ਭਾਸ਼ਾਵਾਂ ਦੇ ਨਵੇਂ ਸ਼ਬਦ ਅਪਣਾ ਰਹੀ ਹੈ। ਪ੍ਰੋ. ਪਰਮਜੀਤ ਸਿੰਘ ਢੀਂਗਰਾ ਨੇ ਵੱਖ ਵੱਖ ਸ਼ਬਦਾਂ ਦੇ ਉਦਾਹਰਣ ਦੇ ਕੇ ਸ਼ਬਦਾਂ ਦੀ ਵਿਸ਼ਵ-ਵਿਆਪੀ ਯਾਤਰਾ ਦੀ ਚਰਚਾ ਕੀਤੀ ਅਤੇ ਇਹ ਸਾਰ ਤੱਤ ਪੇਸ਼ ਕੀਤਾ ਕਿ ਇਨ੍ਹਾਂ ਦੀਆਂ ਧਾਤੂਆਂ ਆਪਸ ਵਿੱਚ ਜੁੜੀਆਂ ਹੋਈਆਂ ਹਨ ਅਤੇ ਸ਼ਬਦਾਂ ਦੀਆਂ ਜੜ੍ਹਾਂ ਵੱਲ ਧਿਆਨ ਦਿੱਤਿਆਂ ਹੈਰਾਨੀ ਹੁੰਦੀ ਹੈ ਕਿ ਕਿਸ ਤਰ੍ਹਾਂ ਸ਼ਬਦਾਂ ਨਾਲ ਅਖਾਣ, ਮੁਹਾਵਰੇ ਅਤੇ ਸਭਿਆਚਾਰ ਬਣਦੇ ਹਨ। ਉਨ੍ਹਾਂ ਕਿਹਾ ਕਿ ਸ਼ਬਦਾਂ ਦਾ ਆਪਣਾ ਅਰਥ ਨਹੀਂ ਹੁੰਦਾ ਬਲਕਿ ਉਹ ਕਿਸੇ ਖ਼ਾਸ ਸਮਾਜ ਸਭਿਆਚਾਰ ਦੇ ਸੰਦਰਭ ਵਿੱਚ ਅਰਥ ਗ੍ਰਹਿਣ ਕਰਦੇ ਹਨ।



ਪ੍ਰੋ. ਪਰਮਜੀਤ ਸਿੰਘ ਢੀਂਗਰਾ ਭਾਗੀਦਾਰਾਂ ਨੂੰ ਸੰਬੋਧਿਤ ਕਰਦੇ ਹੁੰਦੇ

Invited Lectures (In brief)

Eminent academicians enlightened students during Invited Lectures organized by CUPB

Date	Details of Invited Lecture	Details of Speaker
12th and 13th April 2022	Dept. of Zoology organized a demonstration and hands on training on "Attume NXT Flow cytometer".	Dr. Akhilesh Kumar & Dr. Badri Natrajan, Application Scientist, Thermofisher Scientific India Pvt. Ltd.
28th April, 2022	Dept. of Geology organized an Expert Lecture and Student Interaction	Dr. Satinder Dhillon, Director, GSI, Chandigarh
4th May, 2022	Dept. of Physics organized Invited Lecture by Invited Lecture Topic: Topological Material and their properties.	Dr. Sunita Srivastava, Professor, Department of Physics Central University of Haryana

6th May, 2022	Dept. of Environment Science and Technology organized an Expert Lecture and Student Interaction	Prof. Manpreet Singh Bhatti, Professor, GNDU, Amritsar
6th May, 2022	Dept. of Zoology organized invited lecture on “Unfolding public health as a concern and career in India”	Dr. Parikipandla Sridevi, Assistant Professor, Indira Gandhi National Tribal University
6th May, 2022	Training and Placement Cell of the Central University of Punjab organized Invited Talk on Campus Interviews: Dos and Don'ts by Applicants	Mr. H.S. Bawa, Thapar Institute of Engineering and Technology, Patiala
9th May, 2022	Dept. of Zoology organized Invited Lecture on ‘A journey through the past – An interaction session with the M.Sc.’	Prof. G. C. Mishra, Former Director, NCCS, Pune
10th May, 2022	Training and Placement Cell of the Central University of Punjab organized Workshop on effective CV Making	Dr. Shahila Zafar, Associate Professor and HoD, Dept. of English, Central University of Punjab, Bathinda
13th May, 2022	Dept. of Zoology organized Invited Lecture on ‘An Indian Biotech Unicorn: Myth or Realty in the Near Future’	Dr. Roy Karnati, Assistant Professor, University of Hyderabad
15th May, 2022	Dept. of Geology organized Expert Lecture and Student Interaction	Prof. Rajeev Patnaik, Dept. of Geology, Panjab University
18th May, 2022	Dept. of Chemistry organized Invited Lecture and Student Interaction	Prof. Prem Felix Siril and Prof. Anjana Mali
20th May, 2022	School of Languages and Literature organized Invited Lecture on "Literature and Emotional Well-being"	Dr. Dalbir Kaur, Punjabi Poet and Senior Clinical Practitioner, NHS, UK
20th May, 2022	Dept. of Physical Education organized expert lecture on “Research Development in Sports Sciences”	Dr. Nishal Singh Deol, Professor & Head Department of Punjabi University
24th May, 2022	Dept. of Zoology organized Invited Lecture on “Epigenetics & cancer field’	Dr. Ashok Sharma, Professor, Department of Biochemistry, AIIMS Delhi

Grants Sanctioned

Details of Project from 01.04.2022 to 31.05.2022

Sr. No.	Name of the P.I./ Faculty	Project Title	Funding Agency	Sanctioned Amount
1	Dr. Kshetrimayum Krishnakanta Singh	Characterization of elevated manganese concentration in rivers, ponds, lakes, wetlands and shallow groundwater in the Imphal valley of Manipur	DST-SERB (CRG/2021/007365)	3947820

RESEARCH PUBLICATIONS

List of Research Publications from 1st April 2022 to 31st May 2022

- Aggarwal, R., Swati, S., Kumar, V., Singh, R., Kajal, A., & Saini, D. (2022). Design, synthesis, and biological evaluation of N-[1-(6'-chloropyridazin-3'-yl)-3-(4''-substitutedphenyl)-1H-pyrazole-5-yl]alkanamides as anti-inflammatory agents. *Drug Development Research*. <https://doi.org/10.1002/ddr.21912>
- Aggarwal, V., Tuli, H. S., Tania, M., Srivastava, S., Ritzer, E. E., Pandey, A., Aggarwal, D., Barwal, T. S., Jain, A., Kaur, G., Sak, K., Varol, M., & Bishayee, A. (2022). Molecular mechanisms of action of epigallocatechin gallate in cancer: Recent trends and advancement. *Seminars in Cancer Biology*, 80, 256–275. <https://doi.org/10.1016/j.semcancer.2020.05.011>
- Allawadhi, P., Singh, V., Govindaraj, K., Khurana, I., Sarode, L. P., Navik, U., Banothu, A. K., Weiskirchen, R., Bharani, K. K., & Khurana, A. (2022). Biomedical applications of polysaccharide nanoparticles for chronic inflammatory disorders: Focus on rheumatoid arthritis, diabetes and organ fibrosis. *Carbohydrate Polymers*, 281. <https://doi.org/10.1016/j.carbpol.2021.118923>
- Bhambri, R., Hewitt, K., Haritashya, U. K., Chand, P., Kumar, A., Verma, A., Tiwari, S. K., & Rai, S. K. (2022). Characteristics of surge-type tributary glaciers, Karakoram. *Geomorphology*, 403. <https://doi.org/10.1016/j.geomorph.2022.108161>
- Bhardwaj, A., Nag, S., Dahiya, A., Pandey, P., Arora, M., & Babu, J. N. (2022). Effect of Pyrolysis Temperature on Mechanistic Transformation for Adsorption of Methylene Blue on Leached Rice-Straw Biochar. *Clean - Soil, Air, Water*, 50(4). <https://doi.org/10.1002/clen.202100108>
- Bhatti, J. S., Sehrawat, A., Mishra, J., Sidhu, I. S., Navik, U., Khullar, N., Kumar, S., Bhatti, G. K., & Reddy, P. H. (2022). Oxidative stress in the pathophysiology of type 2 diabetes and related complications: Current therapeutics strategies and future perspectives. *Free Radical Biology and Medicine*, 184, 114–134. <https://doi.org/10.1016/j.freeradbiomed.2022.03.019>
- Chaturvedi, S., Khan, S., Bhunia, R. K., Kaur, K., & Tiwari, S. (2022). Metabolic engineering in food crops to enhance ascorbic acid production: crop biofortification perspectives for human health. *Physiology and Molecular Biology of Plants*. <https://doi.org/10.1007/s12298-022-01172-w>
- Das, A., & Yagalakshmi, K. (2022). Amino-functionalized Magnetic Iron Nanoparticles As a Carrier for Laccase Enzyme and Its Potential to Degrade Chlorpyrifos in Contaminated Soil: Fate and Kinetics. *Water, Air, and Soil Pollution*, 233(4). <https://doi.org/10.1007/s11270-022-05591-z>
- Devi, P., Jha, U. C., Prakash, V., Kumar, S., Parida, S. K., Paul, P. J., Prasad, P. V. V., Sharma, K. D., Siddique, K. H. M., & Nayyar, H. (2022). Response of Physiological, Reproductive Function and Yield Traits in Cultivated Chickpea (*Cicer arietinum* L.) Under Heat Stress. *Frontiers in Plant Science*, 13. <https://doi.org/10.3389/fpls.2022.880519>
- Fayaz, M., & Kaur, S. (2022). India's Merchandise Exports to Asia: A Constant Market Share Analysis. *Foreign Trade Review*, 57(2), 178–197. <https://doi.org/10.1177/00157325211072923>
- Giri, K., González-Sánchez, L., Biswas, R., Yurtsever, E., Gianturco, F. A., Sathyamurthy, N., Lourderaj, U., & Wester, R. (2022). HeH+Collisions with H₂: Rotationally Inelastic Cross Sections and Rate Coefficients from Quantum Dynamics at Interstellar Temperatures. *Journal of Physical Chemistry A*, 126(14), 2244–2261. <https://doi.org/10.1021/acs.jpca.1c10309>
- Joshi, A., Singh, P., & Kumar, A. (2022). Entanglement and separability of graph Laplacian quantum states. *Quantum Information Processing*, 21(4). <https://doi.org/10.1007/s11128-022-03483-z>
- Kaur, G., Biswas, R., Haldar, K. K., & Sen, T. (2022). DNA Origami-Templated Bimetallic Core-Shell Nanostructures for Enhanced Oxygen Evolution Reaction. *Journal of Physical Chemistry C*, 126(16), 6915–6924. <https://doi.org/10.1021/acs.jpcc.2c00007>
- Kothyari, G. C., Mishra, S., Taloor, A. K., Kandregula, R. S., Pathak, V., & Chauhan, G. (2022). Distribution of neotectonic variability between the Kachchh Mainland Fault and Vigodi Fault, Northwestern Mainland Kachchh, Western India. *Quaternary Science Advances*, 6. <https://doi.org/10.1016/j.qsa.2021.100047>

- Kumar, N., Kumar, V., Anand, P., Kumar, V., Ranjan Dwivedi, A., & Kumar, V. (2022). Advancements in the development of multi-target directed ligands for the treatment of Alzheimer's disease. *Bioorganic and Medicinal Chemistry*, 61. <https://doi.org/10.1016/j.bmc.2022.116742>
- Kumar, V., Singh, P., Gupta, S. K., Ali, V., Jyotirmayee, & Verma, M. (2022). Alterations in cellular metabolisms after Imatinib therapy: a review. *Medical Oncology (Northwood, London, England)*, 39(5), 95. <https://doi.org/10.1007/s12032-022-01699-8>
- Kumar, V., Singh, P., Gupta, S. K., Ali, V., & Verma, M. (2022). Transport and metabolism of tyrosine kinase inhibitors associated with chronic myeloid leukemia therapy: a review. *Molecular and Cellular Biochemistry*, 477(4), 1261–1279. <https://doi.org/10.1007/s11010-022-04376-6>
- Kumari, S., Kumar, A., Kumar, A., Kumar, V., Thakur, V. N., Kumar, A., Goyal, P. K., Gaur, A., Arya, A., & Sharma, A. L. (2022). Enhanced Curie temperature and superior temperature stability by site selected doping in BCZT based lead-free ceramics. *Ceramics International*, 48(10), 13780–13793. <https://doi.org/10.1016/j.ceramint.2022.01.260>
- Kushawaha, P. K., Pati Tripathi, C. D., & Dube, A. (2022). Leishmania donovani secretory protein nucleoside diphosphate kinase b localizes in its nucleus and prevents ATP mediated cytolysis of macrophages. *Microbial Pathogenesis*, 166. <https://doi.org/10.1016/j.micpath.2022.105457>
- Mahapatra, S., Yadav, R., & Ramakrishna, W. (2022). Bacillus subtilis impact on plant growth, soil health and environment: Dr. Jekyll and Mr. Hyde. *Journal of Applied Microbiology*, 132(5), 3543–3562. <https://doi.org/10.1111/jam.15480>
- Malik, S., & Kumar, S. (2022). Pure-cubic optical soliton perturbation with full nonlinearity by a new generalized approach. *Optik*, 258. <https://doi.org/10.1016/j.ijleo.2022.168865>
- Mayank, Sidhu, J. S., Joshi, G., Sindhu, J., Kaur, N., & Singh, N. (2022). Structural Diversity of D-Alanine: D-Alanine Ligase and Its Exploration in Development of Antibacterial Agents Against the Multi-Variant Bacterial Infections. *ChemistrySelect*, 7(14). <https://doi.org/10.1002/slct.202104373>
- Mishra, P. K., & Mishra, S. K. (2022). Is the Impact of COVID-19 Significant in Determining Equity Market Integration? Insights from BRICS Economies. *Global Journal of Emerging Market Economies*, 14(2), 137–162. <https://doi.org/10.1177/09749101211070960>
- Pattanaik, J. K., Singh, A., Kumar, H., Singh Shah, S., Semwal, P., Sujith Naik, M., Nayak, K., Jaiswal, M. K., Banerjee, A., Nainwal, H. C., & Shankar, R. (2022). Luminescence chronology of Late Quaternary palaeo-lake deposits from the Upper Alaknanda Basin, Uttarakhand, India: Implication to palaeoclimate and depositional settings. *Journal of Asian Earth Sciences*, 227. <https://doi.org/10.1016/j.jseaes.2022.105079>
- Rahim, M. S., Kumar, V., Mishra, A., Fandade, V., Kumar, V., Kiran kondepudi, K., Bishnoi, M., & Roy, J. (2022). High resistant starch mutant wheat 'TAC 35' reduced glycemia and ameliorated high fat diet induced metabolic dysregulation in mice. *Journal of Cereal Science*, 105. <https://doi.org/10.1016/j.jcs.2022.103459>
- Rana, N., Singh, A. K., Shuaib, M., Gupta, S., Habiballah, M. M., Alkhanani, M. F., Haque, S., Reshi, M. S., & Kumar, S. (2022). Drug Resistance Mechanism of M46I-Mutation-Induced Saquinavir Resistance in HIV-1 Protease Using Molecular Dynamics Simulation and Binding Energy Calculation. *Viruses*, 14(4). <https://doi.org/10.3390/v14040697>
- Rani, P., Alegaonkar, A. P., Mahapatra, S. K., & Alegaonkar, P. S. (2022). Tellurium nanostructures for optoelectronic applications. *Applied Physics A: Materials Science and Processing*, 128(4). <https://doi.org/10.1007/s00339-022-05405-3>
- Reis, L. S., Bouloubassi, I., Mendez-Millan, M., Guimarães, J. T. F., de Araújo Romeiro, L., Sahoo, P. K., & Pessenda, L. C. R. (2022). Hydroclimate and vegetation changes in southeastern Amazonia over the past ~25,000 years. *Quaternary Science Reviews*, 284. <https://doi.org/10.1016/j.quascirev.2022.107466>
- Sayed, N., Allawadhi, P., Khurana, A., Singh, V., Navik, U., Pasumarthi, S. K., Khurana, I., Banothu, A. K., Weiskirchen, R., & Bharani, K. K. (2022). Gene therapy: Comprehensive overview and therapeutic applications. *Life Sciences*, 294. <https://doi.org/10.1016/j.lfs.2022.120375>
- Sharma, A., Mehta, V., Rani, S., Noda, M., Sugiyama, M., Chander, H., & Kaur, B. (2022). Correction to: Biomedical applications of L-alanine produced by *Pediococcus acidilactici* BD16 (alaD+) (Applied Microbiology and Biotechnology, (2022), 106, 4, (1435-1446), 10.1007/s00253-022-11766-9). *Applied Microbiology and Biotechnology*, 106(7), 2811. <https://doi.org/10.1007/s00253-022-11894-2>
- Sharma, U., Barwal, T. S., Murmu, M., Acharya, V., Pant, N., Dey, D., Vivek, Gautam, A., Bazala, S., Singh, I., Azzouz, F., Bishayee, A., & Jain, A. (2022). Clinical potential of long non-coding RNA LINC01133 as a promising biomarker and therapeutic target in cancers. *Biomarkers in Medicine*, 16(5), 349–369. <https://doi.org/10.2217/bmm-2021-0682>

- Sharma, U., Murmu, M., Barwal, T. S., Tuli, H. S., Jain, M., Prakash, H., Kaceli, T., Jain, A., & Bishayee, A. (2022). A Pleiotropic Role of Long Non-Coding RNAs in the Modulation of Wnt/ β -Catenin and PI3K/Akt/mTOR Signaling Pathways in Esophageal Squamous Cell Carcinoma: Implication in Chemotherapeutic Drug Response. *Current Oncology*, 29(4), 2326–2349. <https://doi.org/10.3390/curroncol29040189>
- Singh, J., Jakhar, M., & Kumar, A. (2022). Stability, optoelectronic and thermal properties of two-dimensional Janus α -Te2S. *Nanotechnology*, 33(21). <https://doi.org/10.1088/1361-6528/ac54e1>
- Singh, P., Faujdar, J., Sarkar, M., & Kumar, A. (2022). Bell's inequality with biased experimental settings. *Quantum Information Processing*, 21(5). <https://doi.org/10.1007/s11128-022-03504-x>
- Singh, S., & Parida, J. K. (2022). Employment and Earning Differentials Among Vocationally Trained Youth: Evidence from field studies in Punjab and Haryana in India. *Millennial Asia*, 13(1), 142–172. <https://doi.org/10.1177/0976399620964308>
- Srivastav, A., & Singh, S. (2022). Proposed Model for Context Topic Identification of English and Hindi News Article Through LDA Approach with NLP Technique. *Journal of The Institution of Engineers (India): Series B*, 103(2), 591–597. <https://doi.org/10.1007/s40031-021-00655-w>
- Suman, P., Mehta, V., Craig, A. W. B., & Chander, H. (2022). Wild-type p53 suppresses formin-binding protein-17 (FBP17) to reduce invasion. *Carcinogenesis*, 43(5), 494–503. <https://doi.org/10.1093/carcin/bgac015>
- Venkatesan, V., Lopez-Alvarenga, J. C., Arya, R., Ramu, D., Koshy, T., Ravichandran, U., Ponnala, A. R., Sharma, S. K., Lodha, S., Sharma, K. K., Shaik, M. V, Resendez, R. G., Venugopal, P., Parthasarathy, R., Saju, N., Ezeilo, J. A., Bejar, C., Wander, G. S., Ralhan, S., ... Paul, S. F. D. (2022). Burden of Type 2 Diabetes and Associated Cardiometabolic Traits and Their Heritability Estimates in Endogamous Ethnic Groups of India: Findings From the INDIGENIUS Consortium. *Frontiers in Endocrinology*, 13. <https://doi.org/10.3389/fendo.2022.847692>
- Yadav, V., & Gupta, R. K. (2022). Space-Time Fractional KdV–Burger–Kuramoto Equation with Time Dependent Variable Coefficients: Lie Symmetry, Explicit Power Series Solution, Convergence Analysis and Conservation Laws. *International Journal of Applied and Computational Mathematics*, 8(2). <https://doi.org/10.1007/s40819-021-01229-6>

Student Activities and Achievements

May 28, 2022: Department of Microbiology of Central University of Punjab, Bathinda organize Industrial visit at Om Sons Marketing Private Limited, Sangat Kalan

The students of the second and fourth semester of the Department of Microbiology, Central University of Punjab, Bathinda, were taken to an Industrial visit at Om Sons Marketing Private Limited, Sangat Kalan as part of their real world application of Microbiology.

During this visit, students learned the concept of power generation, wastewater purification and the process of fermenter scale production and purification of ethanol using rice as raw material. Senior officials of the company addressed the students on a multitude of topics related to career development.



Group Photograph of CUPB students at Om Sons Marketing Private Limited, Sangat Kalan

May 30, 2022: Department of Zoology of Central University of Punjab, Bathinda organize Industrial visit at Verka Milk Plant, Bathinda

An industrial excursion was organized on 30th May 2022 by the Department of Zoology, Central University of Punjab under the patronage of the honorable Vice Chancellor. The main purpose of the visit was to give Master’s students in the 2nd and 4th semester an industrial exposure. A total of 54 students were taken to the Verka milk plant as a part of the educational excursion.

During this Industrial Visit, the entire strength of students was distributed into two groups and each group was allotted one expert guide by the Verka milk plant. Students were provided with a direct inside look into the dairy industry starting from pasteurization, processing to quality control and preservation techniques of several dairy products such as standard milk, toned milk, skimmed milk, cheese, butter, ice cream, condensed milk and powder milk. Fine scientific details of the respective processes were elaborated by

the guide and doubt from the students had been addressed.



Group Photograph of CUPB Students at Verka Milk Plant, Bathinda

Dr. Aklank Jain (Associate Professor, Department of Zoology, Central University of Punjab, Bathinda) coordinated the entire event with thorough inputs from General Manager, Mr. Abhinav and other supporting staff from the Verka milk plant.

April 29, 2022: Department of Microbiology of Central University of Punjab hosts University Visit of students of SD College, Barnala under Rashtriya Avishkar Abhiyaan Activity

The Rastriya Avishkaar Abhiyaan (RAA) scheme of the university is encouraging and igniting young minds to develop their interest in mathematics and science. The Department of Microbiology, as a part of RAA activity, organised a visit of 50 students from SD College Barnala on April 29, 2022 to get exposure to the ongoing research in various science streams. The students were shown the university museum, computer centre, library, and laboratories.



Group Photograph of students of SD College, Barnala during their visit to CUPB campus

Sr. No.	Name of Student and Department	Topic of Paper	Name of Journal / Conference
1	Anjali Kerketta (Dept. of Environmental Science and Technology)	A decadal analysis to unravel the global status of emerging contaminants in wastewaters and comparison with the Indian context.	Research Paper published in Groundwater for Sustainable Development Journal
2	Sukhchain Kaur, PhD scholar from Department of Microbiology	“Association of Heavy Metals induced Inflammation and Organ Damage during Hypertension Among the Rural Population of Malwa Region of Punjab”	Oral Presentation in the Virtual International Conference ETBSC-2022 organised by Baba Farid College and won the Young Scientist Award

New Patent Granted

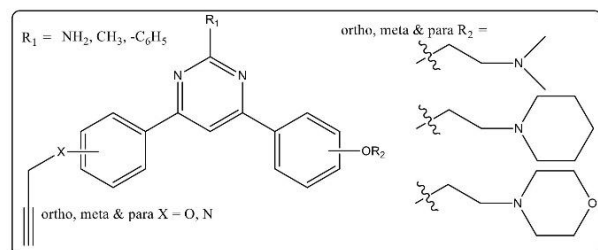
May 5, 2022: Intellectual Property India granted Patent for the Invention entitled "PYRIMIDINE BRIDGED BIPHENYL DERIVATIVES AS MULTI-TARGETING AGENTS FOR THE TREATMENT OF NEUROLOGICAL DISORDERS"

Title of Invention:

Pyrimidine Bridged Biaryl Derivatives as Multi-Targeting Agents for the Treatment of Neurological Disorders

Abstract:

The present invention provides novel pyrimidine bridged biaryl derivatives (Formula 1) and pharmaceutical compositions thereof as multi-targeting agents for the treatment of various neurological disorders such as but not limited to Alzheimer’s disease, Parkinson’s disease, depression Huntington chorea, amyotrophic lateral sclerosis, ageing, cerebral ischaemia, and substance-abuse risk. These compounds were found potent MAO inhibitors, acetylcholinesterase inhibitors, β -amyloid inhibitors, ROS inhibitors and displayed neuroprotective/neurorescue potential. The novel compounds provided by this invention are those of Formula-I where in X, R1 and R2 are defined herein as; X= oxygen or nitrogen atom, R1 is selected from a group of substituents but not limited to -NH₂, -CH₃, Phenyl- and alike; R2 is selected from a group of substituents but not limited to piperidylethyl-, pyrrolodine ethyl-, dimethylethyl- and alike.



Formula 1

Objective:

The objective of the current invention is to explore the role of these novel compounds for the treatment and/or management of neurological disorders.

Congratulations to Inventors!!

Heartfelt Congratulations to Dr Vinod Kumar, Associate Professor, Dept. of Chemistry, Central University of Punjab and his students Bhupinder Kumar and Ashish Ranjan Dwivedi for this breakthrough research.



Dr. Vinod Kumar

PATENT CERTIFICATE

New Faculty and Administrative Officers

Sr. No.	Name	Post	Department / Section	Date of Joining
1	Prof. B.P. Garg	Controller of Examinations		31-12-2021
2	Dr. Rushi Mishra	Medical Officer	Health Centre	15-11-2021
3	Prof. Deepak Kumar Chauhan	Professor	Legal Studies	13-12-2021
4	Prof. Rajesh Kumar Jangir	Professor	Social Science	06-01-2022
5	Dr. Felix Bast	Professor	Botany	21-01-2022
6	Dr. Jeyavel Sundaramoorthy	Associate Professor	Psychology	20-12-2021
7	Dr. Bali Bahadur	Associate Professor	Sociology	14-12-2021
8	Dr. Deep Singh	Associate Professor	Mathematics and Statistics	31-12-2021
9	Dr. Randhir Singh	Associate Professor	Pharmacology	27-12-2021
10	Dr. Hareet Kumar Meena	Associate Professor	History	05-01-2022
11	Dr. Suraj Kumar	Associate Professor	Hindi	25-01-2022
12	Dr. Saraboji Kadhivel	Associate Professor	Computational Sciences	24-01-2022
13	Dr. Ravinder Kaur	Assistant Professor	Law	15-12-2021
14	Dr. Raj Kumar	Assistant Professor	Law	13-12-2021
15	Dr. Karnati Kiran Kumar	Assistant Professor	Economic Studies	13-12-2021
16	Dr. Hareesh Kumar T	Assistant Professor	Financial Administration	13-12-2021
17	Dr. Rebeka Debbarma	Assistant Professor	Psychology	20-12-2021
18	Dr. Santosh Kumar	Assistant Professor	South and Central Asian Studies	13-12-2021
19	Dr. Lalmangaihi Chhakchhuak	Assistant Professor	Sociology	15-12-2021
20	Dr. Florence Guite	Assistant Professor	Library and Information Sciences	28-12-2021
21	Dr. Sukhdev Singh	Assistant Professor	Library and Information Sciences	24-12-2021
22	Mr. Somesh Rai	Assistant Professor	Library and Information Sciences	24-12-2021
23	Dr. Rishabh Shrivastava	Assistant Professor	Library and Information Sciences	31-12-2021
24	Dr. Vikram Deep Monga	Assistant Professor	Pharmaceutical and Natural Products	24-12-2021
25	Dr. Adish Kumar Verma	Assistant Professor	Performing & fine Art	23-12-2021
26	Dr. Kulin Kumar Joshi	Assistant Professor	Performing & fine Art	23-12-2021
27	Dr. Rishpal Singh Virk	Assistant Professor	Performing & fine Art	23-12-2021
28	Dr. Arti Sharma	Assistant Professor	Computational Sciences	31-12-2021
29	Dr. Amit Kumar Singh Kushawaha	Assistant Professor	Hindi	31-12-2021
30	Dr. Rahul Mukherjee	Assistant Professor	Geology	31-12-2021
31	Dr. Vamdev Pathak	Assistant Professor	Geology	04-01-2022
32	Dr. Suparna Tewari	Assistant Professor	Geology	24-01-2022
33	Dr. Prashant Swapnil	Assistant Professor	Botany	24-01-2022
34	Dr. Nirmal Renuka	Assistant Professor	Botany	21-01-2022
35	Dr. Sourabh Barua	Assistant Professor	Physics	07-01-2022
36	Ms. Charu Yadav	Assistant Professor	Performing & fine Art	08-04-2022

पंजाब केन्द्रीय विश्वविद्यालय में विश्व पृथ्वी दिवस पर विशेष कार्यक्रम आयोजित

● इस कार्यक्रम में प्रख्यात वैज्ञानिकों ने पृथ्वी मा को संरक्षित करने और हमारे ग्राह को आने वाली पीढ़ियों के लिए रहने के लिए एक बेहतर जगह बनाने के तरीकों पर अपने विचार साझा किए। ● कार्यक्रम के अंतर्गत आयोजित प्रथम प्रदर्शनी में नवोदय के विभिन्न रस्तों के छात्रों ने सुरक्षित और बेहतर प्रदर्शित किए



पंजाब केन्द्रीय विश्वविद्यालय में विश्व आईपी दिवस 2022 को चिन्हित करने हेतु कार्यशाला आयोजित



विनोद नशा मुक्त भारत बनाने में सहयोग दे छात्र : किशोर राज्यमंत्री ने छात्रों को नशा मुक्त भारत बनाने में योगदान देने के लिए किया प्रेरित

नशा एक सामाजिक बुराई है जो हर स्तर के लोगों को जान ले तो है। किशोर राज्यमंत्री (जनसभा मंत्री) पंजाब केन्द्रीय विश्वविद्यालय में आयोजित कार्यशाला के सत्रों में भाग लेने वाले छात्रों को नशा मुक्त भारत बनाने में योगदान देने के लिए प्रेरित किया।

‘जिन्दगी को हाँ और नशे को ना’ कहने की दिशा में प्रेरित करने के लिए कार्यक्रम के अंतर्गत आयोजित कार्यशाला में भाग लेने वाले छात्रों को नशा मुक्त भारत बनाने में योगदान देने के लिए प्रेरित किया।

कार्यशाला में भाग लेने वाले छात्रों को नशा मुक्त भारत बनाने में योगदान देने के लिए प्रेरित किया।

Dr. Ambedkar Foundation signs MoU with CUP for establishment of DACE

ANIL VERMA BATHINDA, APR 28

Dr. Ambedkar Foundation, an autonomous body under the Ministry of Social Justice & Empowerment (MoSJE), signed MoU with the Central University of Punjab, Bathinda (CUPB) for the establishment of Dr. Ambedkar Centre of Excellence (DACE) at CUPB campus with the goal of uplifting marginalised communities and conducting research on bridging 'socio-political and economic inequalities'.

The announcement came when Union Minister for Social Justice and Empowerment and Chairman of the MoU, Dr. Ambedkar Foundation



(DAF), Dr. Virendra Kumar, established DACE (DACE Centre of Excellence) to provide high quality free coaching facilities to the Scheduled Caste students for the Civil Services examinations, conducted by Union Public Service Commission (UPSC) and other competitive examinations.

Under the DACE Scheme, MoU on behalf of CUPB with Vikas Trivedi, Director, Dr. Ambedkar Foundation, for the establishment of DACE and the Dr. Ambedkar Chair Under this MoU, CUPB & DAF, MoSJE will

Dr. Anil Verma, Chairman of the MoU, Dr. Virendra Kumar, Director of the DACE, and other officials are seen in a group photo during the signing ceremony.

शहीदों की दाद में लगाया रक्तदान कैंप



शहीदों की दाद में लगाया रक्तदान कैंप। The event was held at the DACE campus, where a group of people participated in donating blood to support the war effort.

HO'NBLE VICE PRESIDENT OF INDIA & CHAIRMAN, PUNJAB UNIVERSITY



श्री जगदीप सिंह साहित्य रत्न अवार्ड से सम्मानित। (Left to Right) Vice President of India, Shri Jagdeep Singh, Vice-Chancellor of CU Punjab, and other officials.

जैव विविधता संरक्षण जागरूकता अभियान के तहत प्रश्नोत्तरी, डॉक्यूमेंट्री स्क्रीनिंग का आयोजन



जैव विविधता संरक्षण जागरूकता अभियान के तहत प्रश्नोत्तरी, डॉक्यूमेंट्री स्क्रीनिंग का आयोजन। The event was held at CU Punjab, where a group of people participated in a quiz and documentary screening.

संयुक्त रूप से विश्व स्वास्थ्य दिवस मनाया गया



संयुक्त रूप से विश्व स्वास्थ्य दिवस मनाया गया। The event was held at CU Punjab, where a group of people participated in a health check-up and receiving information.

संयुक्त रूप से विश्व स्वास्थ्य दिवस मनाया गया

संयुक्त रूप से विश्व स्वास्थ्य दिवस मनाया गया। The event was held at CU Punjab, where a group of people participated in a health check-up and receiving information.

CU of Punjab organised special session under 16th National Youth Parliament competition

ANIL VERMA BATHINDA, MAY 27

The Central University of Punjab, Bathinda (CUPB) organized a special session of the 16th National Youth Parliament (A University Level Competition) under the aegis of the Ministry of Parliamentary Affairs, at its campus on Friday.

The objective of this competition is to strengthen the roots of democracy among the youth and to enable the student community to know about the practices and procedures of the Parliament.



ma, Ministry Group Coordinator, 16th National Youth Parliament, Shri Raj Dev Singh Khalsa, Former MP, and Shri Mandep Singh, Regional Coordinator, MGSIPA.

The jury members praised the vibrant and spectacular performance of the students. It is worth noting that the CUPB stood as the Champions of 15th National Youth Parliament held in FY 2019-20 and runner up of 14th National Youth Parliament held in FY 2017-18. In the session of 54 minute duration, the CUPB students

भारतीय संस्कृति को प्रदर्शित करता है श्री गुरु ग्रंथ साहिब: प्रो. बेदी



भारतीय संस्कृति को प्रदर्शित करता है श्री गुरु ग्रंथ साहिब: प्रो. बेदी। The book launch event was held at CU Punjab, where a group of people participated in the launch.

showcased excellent oratory and elocution skills by presenting 10 agenda items relating to parliamentary proceedings like Oath taking, Obituary, Introduction of New Ministers, Question Hour, Breach of Privilege, Papers laid, Message from Upper House, Welcoming Foreign Delegates, Calling Attention Motion, Short duration discussion, and Legislative Process. On this occasion, Prof. R.K. Wusrinka, Dean In-charge, expressed his gratitude towards the jury members.

संयुक्त रूप से विश्व स्वास्थ्य दिवस मनाया गया

संयुक्त रूप से विश्व स्वास्थ्य दिवस मनाया गया। The event was held at CU Punjab, where a group of people participated in a health check-up and receiving information.

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