

CENTRAL UNIVERSITY OF PUNJAB

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

RANKED 84th AMONG UNIVERSITY CATEGARY IN N.I.R.F. INDIA RANKINGS 2021 BATHINDA-BADAL ROAD, GHUDDA, BATHINDA, PUNJAB-151401



HIGHLIGHTS

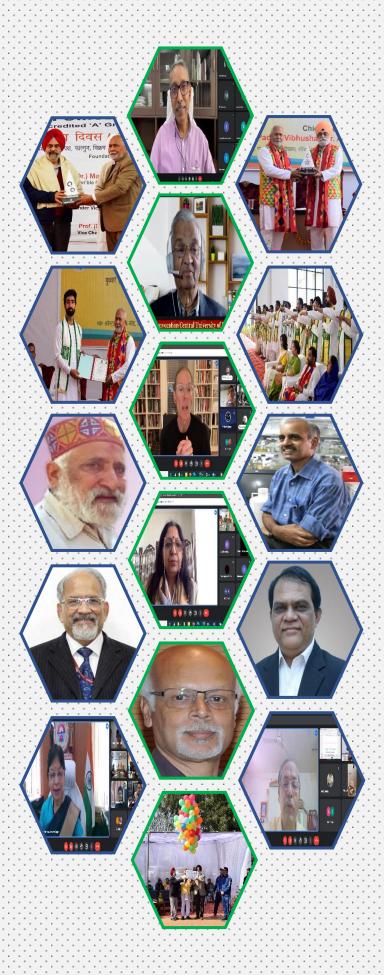
675 PG/PhD Degrees confered durign 7th Convocation of University—Page No. 3 UGC Chairpersona delivered Foundation Day Address during CUPB 13th Foundation Day Celebrations— Page No. 4 CUPB organized 10th Annual Sports Meet– Page No. 7



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EDITORIAL

very Higher Education Institution envisions providing a holistic education to its students to ensure their overall development. Under the leadership of Vice Chancellor Prof. Raghavendra P. Tiwari, the Central University of Punjab, Bathinda (CUPB) provides wide opportunities to its students to enable them to demonstrate their hidden talent and sharpen their skillset. The university continues to organize a large number of academic activities to enhance the knowledge and research potential of its students.

The February--March 2022 is a period during which the university marked its 13th Foundation Day with an eight-day long Foundation Day Celebrations. The celebrations featured the National Bird Survey 2022, International Quiz Competitions, Food Carnival, Idea Hunt, Documentary Making Competition, Song and Dance Competition, etc. In addition to this, the university organized a special Foundation Week Lecture Series by eminent academicians and acclaimed scientists to utilise this occasion for the knowledge enrichment of students. During these celebrations, special awards and appreciation certificates were conferred on university students, research scholars, faculty, and staff members based on their annual performance. During this period, the university hosted the 10th Annual Sports Meet, wherein students from different departments participated in track and field games and indigenous games of Punjab. The above events inculcate sportsmanship spirit and team spirit among students.

As per schedule, the university hosted its major event, the 7th Convocation Programme, in this period to confer 650 PG Degrees and 25 PhD Degrees to 2020-21 pass out students and to award Gold Medals to 35 meritorious students. Out of 675 degrees conferred, 12 were awarded to international students from Afghanistan, Swaziland, and Bangladesh.

As a part of the NEP2020 implementation process, the university strengthened its collaborations with other educational institutions by signing a MoU with Maharaja Ranjit Singh Punjab Technical University, Bathinda to raise the standard of higher education in the Malwa region and the Forest Research Institute, Dehradun to combat desertification.

When it comes to academic activities, the university organized a National Workshop on "Ancient Indian Mathematics"; a Two-day International Conference on "Narratives of Nation: Contemporary Literary, Cultural, and Theoretical Debates"; and several webinars/invited lectures on different subjects. The IIC & IPR Cell of the university conducted special lecture sessions on entrepreneurship, IPR, and patent filing to enhance the spirit of innovation and entrepreneurship among youngsters. The university organized tree plantation drives and various events to commemorate national and international days.

The activities featured in February 2022—March 2022 edition of "SUDIKSHA" underlined the university's commitment to providing a vibrant atmosphere for students to excel in academics as well as in extracurricular activities. Such an environment at the CUPB campus helps students become global intellectual citizens.

Happy Reading!!!

Warm Regards,

Edition Board





Major Events

March 2, 2022: Central University of Punjab organised 7th Convocation

 Out of 675 degrees conferred, 12 were awarded to international students from Afghanistan, Swaziland and Bangladesh

The Central University of Punjab, Bathinda (CUPB) organised the 7th Convocation Ceremony at its campus on Wednesday. The Hon'ble Chancellor of the University, Prof. Jagbir Singh, presided over the ceremony. Padma Vibhushan Dr. Anil Kakodkar, Former Chairman, Atomic Energy Commission, graced the occasion as the Chief Guest and delivered the Convocation Address.

During the Seventh Convocation, a total of 675 PG/PhD degrees were conferred in hybrid mode, which included 650 Post Graduate Degrees and 25 PhD Degrees. Gold Medals were awarded to 35 meritorious students who secured first position in their respective discipline. Out of 675-degree recipients, 12 PG degree recipients were foreign national students from Afghanistan, Swaziland and Bangladesh. Keeping in view of the COVID-19 situation, the convocation was held in hybrid mode (PhD students received their degrees through offline mode and PG students received their degrees through hybrid mode).



Chancellor Prof Jagbnir Singh and Vice Chancellor Prof RP Tiwari conferring degrees to students during CUPB 7th Convocation

At the start of the program, CUPB Vice Chancellor Prof. Raghavendra P. Tiwari delivered the welcome address and presented the university's Progress Report, wherein he shed light on the university's achievements and best practices. He pointed out that after a modest start from a camp office with 10 students in 2009, the university

now has around 2398 students studying in 44 PG and 36 PhD programmes at its 500-acre permanent campus. He added that CUPB Campus represents the cosmopolitan culture of Mini India and the cultural diversity of the university is evident from the fact that the university has students from 26 states and 7 UTs of India, along with 41 international students from 13 countries. He praised CUPB faculty and research scholars for maintaining a strong publication profile in the last year by publishing more than 360 research papers in highly indexed journals and receiving extramural grants totaling more than Rs 7 crores (19 projects). He expressed his delight that the university has improved its national ranking (84th rank in NIRF 2021) and has earned its place among the top 10% of HEIs across the world (Webometrics Ranking of World Universities). He made an appeal to graduating students to always use innovative and scientific approaches to find solutions to various problems and work hard to make a mark on the global platform.



Padma Vibhushan Dr. Anil Kakodkar delivering the Convocation
Address

The Chief Guest, Padma Vibhushan Dr. Anil Kakodkar, congratulated the graduating students and winners of gold medals. In his convocation lecture, Dr. Kakodkar stressed on the need for innovative reforms in the educational framework of our country to bridge the rural-urban knowledge gap in an era dominated by highend technologies. He also shared insights on the country's urban-rural gap and discussed at length the concept of a 'CILLAGE' (a term formulated with a combination of the words "City & Village', i.e. a knowledge integrated sustainable village development model) and "AKRUTI" (Advanced Knowledge based Rural





Technology sub-centres). He asserted that HEIs should aim at human capacity building for technology adaptation, produce knowledge-based value creators, and focus on academic collaborations with educational institutions in rural areas to bridge the growing disparity (urban-rural gap). He put forward a detailed roadmap for bridging our growing gaps with technology advanced countries through the creation of an Industry and Research University Ecosystem, capacity building of local people, and the implementation of a knowledge-integrated sustainable village development model.



Chancellor Prof Jagbir Singh delivering Convocation Address

While congratulating degree recipients, Prof. Jagbir Singh, the Chancellor, in his Presidential Address, encouraged the outgoing students to work on innovative ideas and choose the profession of their interest. He stated that India has a legacy of providing education to the world since ancient times, and the ultimate aim of education is not just to achieve proficiency but to contribute to society with a pluralistic approach to life. He cited verses from holy books like Bhagwat Geeta, Vishnu Purana, and Sri Guru Granth

Sahib to state that our ancient Indic knowledge traditions stresses on establishing continuous dialogue exchange and encourages acceptance of all viewpoints, so that we all live life in liberty and integrity with each other. He motivated degree recipients to be lifelong learners and apply the knowledge gained for the welfare of the nation.



Degree recipients taking pledge during the CUPB Convocation

On this occasion, Prof. R.K. Wusirika, Dean Academic Affairs, Prof. V.K. Garg, Dean Student Welfare and Prof. Anjana Munshi, Dean Research, also gave their best wishes to the degree recipients for their bright future.

During this program, Shri Kanwal Pal Singh Mundra, Registrar, coordinated the stage for conferring the degrees to recipients. Prof. B.P. Garg, Controller of Examinations, announced the winners of the Gold Medal Award and proposed a formal vote of thanks towards the end of the programme.

February 28, 2022: Central University of Punjab celebrated its 13th Foundation Day

 UGC Chairperson and Vice Chancellors of various Universities attended CUPB Foundation Day Ceremony

The Central University of Punjab, Bathinda (CUPB) under the patronage of Vice Chancellor Prof. Raghavendra P. Tiwari celebrated its 13th Foundation Day by honouring the contributions of its faculty, staff members, and students in their respective fields. The eight-day celebrations (which included international quiz contests, lecture series by distinguished speakers, cultural events, and more) concluded with a grand ceremony. Prof. Mamidala Jagadesh Kumar, Chairman, University Grants Commission, graced the Foundation Day Ceremony as

the Chief Guest and delivered the Foundation Day Lecture on the topic 'Education for Sustainable Development". The Guest of Honour to the programme was Prof. Jai Rup Singh, Founder Vice Chancellor, Central University of Punjab. Prof. Buta Singh (Vice Chancellor, Maharaja Ranjit Singh Punjab Technical University) and Prof. Gurmail Singh (Vice Chancellor, Akal University), were among the distinguished academicians who attended the occasion as special guests.

On this occasion, the Chief Guest, Prof. M. Jagadesh Kumar, congratulated the CUPB fraternity on completing thirteen years in the field of higher education. While delivering the Foundation Day Address





through a virtual platform, Prof. Jagadesh Kumar stated that innovations in science and technology have made our lives somewhat comfortable, but the excessive usage of natural resources along with the production of plastic waste has also polluted our environment more. He asserted that the concept of sustainable development can only be achieved with coordinated efforts at all levels, along with good governance and education for sustainable development.



UGC Chairperson Prof. M. Jagadesh Kumar delivering the Foundation Day Address

In his address, Prof. Jagadesh Kumar highlighted that Indian culture and civilization, based on the philosophy of 'Sarve Bhavantu Sukhinah' has always taught us to live in harmony with nature. He underlined that to achieve Sustainable Development Goals, the Higher Education Institutions need to promote environment friendly practices among youngsters and provide them with value-based education to make them global citizens. He encouraged the younger generation to adopt a simple lifestyle by taking inspiration from Mahatma Gandhi and work towards environment conservation.



Vice Chancellor Prof. Tiwari attending the CUPB 13th Foundation

Day Programme with esteemed guests

The Guest of Honour of the Programme, Prof. Jai Rup Singh, expressed his delight that the university, which began its journey from a small camp office in 2009 with just 10 students, has grown into 500-acre campus that is attracting faculty and students from all across the country and overseas. He attributed the exceptional growth of CUPB to university's research centric

approach, transparent system and dedicated faculty & staff members. He emphasized on the need for the promotion of scientific temper and the spirit of inquiry among students.



CUPB VC Prof RP Tiwari presenting a memento to Founder VC Prof Jai Rup Singh

During the Foundation Day Programme, special guests conveyed their best wishes to the university community. In his address, Prof. Gurmail Singh (Vice Chancellor, Akal University) stated that the growth journey of the CUPB is commendable as the university, within the short span of 13 years since its establishment, has obtained key milestones like the youngest central university that has obtained the 84th rank (University Category) in the NIRF 2021 rankings, "A" Grade accreditation from NAAC in the first cycle, etc. Prof. Buta Singh (Vice Chancellor, MRSPTU) complimented Vice Chancellor Prof. Tiwari for adopting a collaborative approach to work together with regional HEIs for the skilling and upskilling of youngsters and expressed hope that the university would grow leaps and bounds under his dynamic leadership.

In his presidential address, Prof. Raghavendra P. Tiwari, the Vice- Chancellor, expressed his gratitude towards the former Vice Chancellors (Prof. Jai Rup Singh and Prof. R.K. Kohli) of CUPB for laying a solid foundation which would help to actualize the university's vision of transforming minds to serve humanity through skills and innovation driven teaching and research; values and community outreach. He mentioned that the ultimate objective of 'Education for Sustainable Development' is to create awareness among youngsters to use the available resources and preserve our ecosystem for future generations. He stressed on the need for inclusion of a Universal Human Values component in the course curriculum for the holistic development of





learners. Prof. Tiwari encouraged CUPB employees to contribute their best to the development of the university and motivated CUPB scientists to find innovative solutions to social problems with a focus on interdisciplinary research.

During this ceremony, special awards and appreciation certificates were conferred on university students, research scholars, faculty, and staff members based on their annual performance. Dr. Sachin Kumar (Dept. of Mathematics and Statistics) and Dr. Rubal Kanozia (Dept. of Mass Communication & Media Studies) received Outstanding Research Awards in the sciences and humanities streams, respectively. Dr. Vinod Kumar and Dr. Aklank Jain received the 'Role of Honour' Award for getting five commendation certificates. The research awards were conferred to Dr. Aklank Jain, Dr. Sachin Kumar, Dr. Nasir Salam; Dr. Shashank Kumar, Prof. Raj Kumar, Dr. Prafulla Kumar Sahoo, Dr. Anoop Kumar, Dr. Jasvinder Singh Bhatti, Prof. Anjana Munshi, Prof. Anil Kumar Mantha, Prof. Monisha Dhiman, Dr. Vikas Jaitak, Dr. Puneet Kumar, Dr. Krishna Kanta Haldar, Dr. Ashok Kumar, Dr. Yogalakshmi K.N., Dr. Sandeep Singh, Dr. Uma Shankar, Dr. Sunil Mittal, Dr. Suresh Thareja, Dr. Virender Singh, Dr. Manju Jain, Dr. Pritam Chand and Dr.

Achchhe Lal. Apart from this, Prof. Raj Kumar, Prof. Felix Bast and Dr. J.K. Patnaik received the Certificate of Appreciation. PhD students Atul Kumar Singh and Ritu Arya received the Best Research Scholar Award. Ms. Shweta Bawa, Mr. Deepak Kumar, and Mr. Jyoti Singh received the Registrar's Award for Best Non-Teaching Employees.



CUPB students performing a classical dance during the Foundation

Day

During the cultural programme, students showcased spectacular singing, dancing and other performances on topical issues of great relevance. Registrar, Shri Kanwal Pal Singh Mundra, gave a formal vote of thanks towards the end.



Group Photograph of CUPB Vice Chancellor Prof R.P. Tiwari, faculty and staff members along with Guest of Honour Prof. Jai Rup Singh and Special Guests Prof. Buta Singh and Prof. Gurmail Singh





February 11, 2022: Central University of Punjab organized 10th Annual Sports Meet

Central University of Punjab, Bathinda (CUPB), under the patronage of Vice Chancellor Prof. Raghavendra P. Tiwari, successfully organized the 10th Annual Sports Meet on Friday at the CUPB Ghudda Campus. The special attractions of CUPB Sports Meet-2022 are Indigenous Games of Punjab such as Pithu Garam, Stapoo, Gilli Danda, Kabaddi, Tug of War etc. The chief guest of the inaugural ceremony was Lt. Gen. Dr. J.S. Cheema, Vice Chancellor, The Maharaja Bhupinder Singh Punjab Sports University (MBSPSU), Patiala.

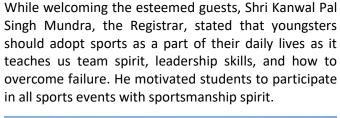


CUPB Vice Chancellor Prof. Tiwari and Chief Guest Dr. J.S. Cheema releasing baloons during the Inaugural Ceremony of CUPB 10th Annual Sports Meet

During the opening ceremony, Prof. R.P. Tiwari and Dr. J.S. Cheema hoisted the university flag and declared the CUPB 10th Sports Meet Open by lighting the Mashaal (torch), and releasing the colourful balloons into the air. On this occasion, university athletes took the pledge to exhibit sportsmanship spirit during the different games of this annual sports meet. Faculty, staff members and students in large numbers were present during the programme.



Glimpses of CUPB 10th Annual Sports Meet





CUPB female students participating in Rassa Kassa Event

The Chief Guest, Lt. Gen. Dr. Dr. J.S. Cheema, complimented the CUPB Dept. of Physical Education for graceful execution of 10th Annual Sports Meet and appreciated the zeal of students to participate in various sporting events. He emphasised the importance of conducting regular offline field activities to enhance the physical fitness of young minds in the era of online education. He also appreciated the move of the university to include indigenous games of Punjab along with other sports competitions in this programme, as it keeps us rooted in our tradition.



VC Prof RP Tiwari addressing the participants

Underlining the increasing importance of sports in everyday lives, Vice Chancellor Prof. R.P. Tiwari, in his presidential address, said that now sports have become an integral part of the curriculum in educational institutions, which earlier was considered part of extracurricular activities. He further added that National Education Policy 2020 has also included sports as an important part of the curriculum for the holistic





development of students. Prof. Tiwari appreciated the MBSPSU Vice Chancellor for introducing innovative programmes in sports and invited him to work together for introducing Dual Degree Programme / Joint Degree Programme to actualize the vision of NEP2020.



Student participating in short put gaming event

The special highlight of the 10th Annual CUPB Sports Meet was the Indigenous Games of Punjab, such as Pithu Garam, Stapoo, Gilli Danda, Kabaddi, Tug of War, etc. The other gaming competitions that were held during this mega sporting event were the Discus Throw, Shot Put, Volleyball, Cricket, Badminton, 100 metre race, and 50 metre race. In addition to this, various games were organized under the Fitness Challenge competitions for students and faculty members, such as Push Ups, Dand Bathak, Barfi Jump, Plank, and Sirsha Asana.

CUPB students enthusiastically participated in the Indigenous Games of Punjab as well as in other games and displayed their sportsmanship spirit during this sporting extravaganza.

During the valedictory ceremony, CUPB Registrar Shri Kanwal Pal Singh Mundra, along with Dean Student Welfare Prof. Vinod K. Garg and Dean In-charge Academics Prof. R.K. Wusirika, awarded prizes to the winners. More than 350 medals were distributed during the prize distribution ceremony.



CUPB Officials awarding medals to winners during prize distribution ceremony

Towards the end, the faculty members from the Dept. of Physical Education thanked the students, research scholars, teaching and non-teaching staff for their extended coordination to make this programme a big success.

MoU signed

February 2, 2022: Central University of Punjab signs MoU with Maharaja Ranjit Singh Punjab Technical University to raise the standard of higher education in Malwa region

Central University of Punjab, Bathinda (CUPB) signed a Memorandum of Understanding (MoU) with the Maharaja Ranjit Singh Punjab Technical University (MRSPTU), Bathinda in research, innovation, education and consultancy for making collective efforts to raise the standard of higher education in the Malwa region.

The MoU was signed by Dr. Gurinder Pal Singh Brar, registrar MRSPTU, and Kanwal Pal Singh, Registrar, CUPB in the august presence of Prof. Buta Singh Sidhu (Vice Chancellor, MRSPTU) and Prof. Raghavendra P. Tiwari (Vice-Chancellor, CUPB).



Glimpses of MoU signing ceremony

The purpose of this MoU is to support each other's endeavours in delivery of academic programmes and research activities through various steps.





Prof. Buta Singh Sidhu said this exercise would facilitate both the universities to move jointly on academic, innovation and research, teaching and training as well as consultancy fronts in the field of Humanities & Management, Basic and Applied Sciences, Mathematics, Languages, Computer Application, Social Sciences & Engineering.

Prof. Raghavendra P. Tiwari, Vice-Chancellor, CUPB, highlighting the distinguished features of the document, shared that both the institutions intended to exchange scientific and technical information, undertake collaborative research activities in nationally and internationally funded projects, offering of joint courses and so on. He further shared that the MoU would also serve the Rashtriya Avishkaar Abhiyaan of the Ministry of Human Resource Development (MHRD) through inspiring and motivating the young minds, teachers and students for research and innovations.

It was stated that during the five year period of MoU, the universities would do their best to contribute in building intellectual capital through research, innovation and scholastic ideas.

On the occasion, MRSPTU Dean Academic Affairs, Dr. Kawaljit Singh Sandhu, Dean, Research and Development, Dr. Ashish Baldi, Dean Consultancy and Industry Linkages, Dr. Manjit Bansal and Director, Public Relations, Harjinder Sidhu (All from MRSPTU) were also present. Dean Student Welfare, Prof. Vinod Kumar Garg, Dean Incharge Academics, Prof. Ramakrishna Wusirika, Dean Research, Prof. Anjana Munshi, HOD, Dept. of Microbiology, Prof. Monisha Dhiman and Executive Engineer, Er. Saurabh Gupta from the Central University of Punjab also attended the ceremony.

February 10, 2022: Central University of Punjab, Bathinda signs MoU with Forest Research Institute, Dehradun to promote new academic partnership for combating desertification

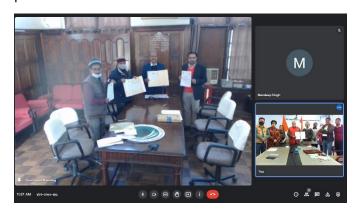
Under the dynamic leadership of Vice-Chancellor Prof. Raghavendra Prasad Tiwari and with the initiative of the DST-FIST supported Dept. of Botany, the Central University of Punjab, Bathinda (CUPB) signed a Memorandum of Understanding (MoU) with the Forest Research Institute (FRI), Deemed to be University, Dehradun, to promote new academic partnerships for combating desertification. The objective of this MoU is to accelerate the progress of research and training in various disciplines of forestry research through a collaborative approach. Shri Arun Singh Rawat, IFS (1986 batch), Director General, ICFRE graced this programme as chief guest.



Vice Chancellor Prof. R.P. Tiwari along with CUPB Officials presenting signed MoU during the ceremony

During the signing ceremony held virtually, Shri Kanwal Pal Singh Mundra, Registrar, CUPB and Shri Arun Singh Rawat, IFS (1986 batch) and Director General, ICFRE, signed the pact in the august presence of Prof. R.P. Tiwari, Vice Chancellor, CUPB.

At the start of the programme, Prof. Felix Bast, HoD, Dept. of Botany, CUPB, shed light on the facilities of the DST-FIST supported Dept. of Botany, such as the Herbarium, high-end instrumentation, etc. He shared that this MoU would provide access to both institutions to utilize each other's research facilities and expertise for conducting collaborative research for environmental protection.



Shri Arun Singh Rawat and FRI Officials presenting the signed MoU during the ceremony

Shri Arun Singh, Director General, ICFRE, mentioned that the Forest Research Institute, under the Indian Council of Forest Research and Education (ICFRE), is an internationally recognized research institute to carry out research, education, and training on Forestry, Management, Wood Environment Science Technology and Cellulose & Paper Technology. Shri Arun Kumar shared various research achievements of FRI, Dehradun and highlighted that with its 17 research centres, the Deemed to be University has developed





genetically modified disease-resistant species of 69 plants, including Sheesham (Indian rosewood), the state tree of Punjab. He hoped that this Memorandum of Understanding would allow scientists and research scholars from both institutions to collaborate on joint research projects and develop new age solutions for biodiversity conservation.

In his presidential address, Vice Chancellor Prof. R.P. Tiwari stated that the objective of this MoU is to develop innovative solutions for combating desertification and climate change. He asserted that the university on its 500-acre campus has earmarked large spaces for tree plantations and experimental research. He encouraged scientists of both institutions to work together to develop disease-resistant species of indigenous plants

such as Moringa (Sohanjna) and discover their valueadded benefits to society.

On this occasion, Prof. Anjana Munshi (Dean Research), Prof. Monisha Dhiman (Director, IQAC), Prof. Raj Kumar (Dean, School of Health Sciences), and the faculty members of CUPB Botany Dept. Prof. Sanjeev Kumar, Dr. Pankaj Bhardwaj, Dr. Vinay Kumar, Dr. Nirmal Renuka and Dr. Prashant Swapnil were present. From FRI, Dehradun, Dr. Tara Chand (Group Coordinator Research), Dr. Ajay Thakur (Head, Division of Genetics and Tree Improvement), along with their team members, also attended the ceremony.

National Workshop / Conference Organized

March 14—16, 2022: Central University of Punjab successfully organized three-day National Workshop on "Ancient Indian Mathematics"

In extension to its academic activities, the Department of Mathematics and Statistics, Central University of Punjab, Bathinda (CUPB), under the patronage of the honourable Vice Chancellor Prof. Raghavendra P. Tiwari, successfully organized a three-day national workshop on "Ancient Indian Mathematics" from 14–16 March. The objective of this workshop, supported by The Mathematics Consortium, was to make young mathematicians familiar with the outstanding contributions of ancient Indian mathematicians. Around 275 participants, including students, research scholars, and faculty members from educational institutions across India, registered for this workshop.



Prof S A Khanduja addressing the participants

The guest of honour of the inaugural session, Prof. S. K. Khanduja (Senior Scientist, INSA, IISER, Mohali), shed light on the major contributions of ancient Indian mathematicians and shared the oldest extant

mathematical document, the Bakhshali Manuscript. She mentioned that "Mathematics is the gateway to the world of innovation and is the language of science and technology."

The chief guest of the inaugural session, Prof. V. P. Saxena (Former Vice Chancellor, Jiwaji University, Gwalior and Adviser, SIRTS, Bhopal), discussed the important principles of various branches of mathematics developed in ancient times, such as arithmetic, algebra, geometry, trigonometry, etc. and shared their applications in the modern era.

In this three-day workshop, eminent academicians from reputed educational institutions like Prof. Smita Bedekar (S. P. Pune University, Pune); Prof. S. G. Dani (Centre for Excellence in Basic Sciences, Mumbai); Prof. S. A. Katre (S. P. Pune University, Pune); Dr. Shailaja S. Katre (Tilak Maharashtra Vidyapeeth, Pune); Dr. Venketeswara Pai (IISER, Pune) and Prof. Sriram (K V Sarma Research Foundation, Chennai) delivered lectures on various subthemes of this workshop.

Prof. Ramakrishna Wusirika, Dean, In-charge Academics, mentioned that this workshop was unique as it featured important topics of Ancient Indian Mathematics such as Astronomy, Geometry in Ancient India, Lilawati of Bhaskaracharya, Kutakka method, Pell's equation and surds, etc. which are foundational for learning many modern aspects of mathematics.





During the valedictory session, Prof. Gauree Shankar, Workshop Convener and Head of the Department, expressed his gratitude towards the distinguished speakers of this workshop. He asserted that the deliberations made in this workshop have enhanced the participants' understanding of fundamental concepts of ancient Indian mathematics and the knowledge gained from this programme would help them to conduct

quality research in the field of mathematics. He appreciated the members of the organizing team (Dr. Deep Singh, Dr. Sachin, Kumar, Dr. Anoop Kumar, Dr. Ashok Kumar Pathak, Dr. Harmanpreet Singh Kapoor and Dr. Sandeep Kaur) for the smooth execution of this programme.

March 24—25, 2022: Two-day International Conference on "Narratives of Nation: Contemporary Literary, Cultural, and Theoretical Debates" held at Central University of Punjab

The Dept. of English at the Central University of Punjab, Bathinda (CUPB) organized a two-day international conference on the theme "Narratives of the Nation: Contemporary Literary, Cultural, and Theoretical Debates". The Keynote speakers in this programme were Prof. Martin Puchner, Harvard University, Cambridge, Massachusetts (U.S.A) and Prof. Dhananjay Singh, Jawaharlal Nehru University, New Delhi (India).



Prof Martin Puchner from Harvard University delivering keynote address during the inaugural session

During the inaugural session, Prof. Martin Puchner from Harvard University shared his views on "Narratives of the Nation" and "How Literature Shaped History". He stated that a Nation is an imaginary concept and it needs additional tools to keep its people together. He added that storytelling has evolved as one of the most powerful tools and the invention of paper and printing technologies had helped our ancestors develop literature and transfer their knowledge, beliefs, and cultural traits to future generations. He discussed the role of foundational texts available in sacred books and text fundamentalists in shaping social beliefs and shed light on the importance of literature on the changing planet.

On the second day, Prof. Dhananjay Singh from Jawaharlal Nehru University delivered a talk on "Nation and Darshan in Thought and Tradition". He understood nation as a substance, an attribute and a perspective derived from Bharata's Nātyaśastra. By bringing into discussion several ideas of nation as proposed by western and Indian thinkers like Benedict Anderson,

Raja Rao, Vijay Mishra, he emphasized on the postcolonial and diasporic view of Nation. Prof. Singh reiterated that there is a need to come away from the colonial idea of nation state, since India stems as a community from the idea of the Self. To understand the self, he referred to Chandogya Upanishad and linked it to the idea that India is a darshan, a seen space rather than an imagined concept. He raised the question of whether the nation as an invisible entity can be a ground of experience.



Prof Dhananjay Singh from JNU delivering keynote address

In his presidential address, Prof. Raghavendra P Tiwari, Honourable Vice Chancellor, Central University of Punjab emphasized that India has a rich tradition, filled with principles and values that form the ethos of the land. As an ancient civilization, India has provided the world with powerful national narratives which would always be beneficial for the entire humanity, such as: God is one; Vasudhaiva Kutumbakam (the whole world is one family); Sarve Bhavantu Sukhinah (may all be happy); and the theory of minimalism (all natural resources belong to God and an individual needs to use it judiciously). He expressed hope that the deliberations made in this workshop would help the participants to understand the concept of nation beyond physical boundaries and contribute to making this planet a better place to live.





This international conference featured five technical sessions during which faculty and research scholars, from India and abroad, presented 20 research papers. Different sub-themes , such as Silence and Resilience; Imagining Gender and Nation through Narratives of Partition by Women; Critiquing Nation; The Concept of Nation; Earth and Moon as Nations; Epistemology in Wisdom Literature; Challenges to National Identity etc., were covered.

On this occasion, Prof. Ramakrishna Wusirika, Dean Incharge, Academics, and Prof. Anjana Munshi, Dean Research, expressed gratitude towards the keynote

speakers, relayed the observations they made during the plenary sessions, and congratulated the paper presenters. Dr. Shahila Zafar, Head, Department of English, Central University of Punjab, gave a formal vote of thanks. She complimented the members of Organizing Committee, Prof. Alpna Saini, Dr. Vipan Pal Singh (Coordinator), Dr. Dinesh Babu P., Dr. Prithvi Raj, along with the PhD Research Scholars- Anusha Hegde, Ankit Sharma, Don Joseph, Gurjeet Singh and Suraj Sonifor the smooth execution of this workshop.

Activities organized by IIC / IPR / Placement Cell

February 9, 2022: CUPB organized a webinar on Vaccine – A Boon to Humankind and Animals

The Institution's Innovation Council, Central University of Punjab, Bathinda (CUPB), under the patronage of Vice Chancellor Prof. Raghavendra P. Tiwari, organized a webinar on "Vaccine – A Boon to Humankind and Animals" on Wednesday as a part of Azadi ka Amrit Mahotsav programme series. The distinguished speaker of this programme was Dr. V.A. Srinivasan, Former Research Director, Indian Immunological Limited, Hyderabad.



Dr. V.A. Srinivasan

While addressing the participants, Dr. Srinivasan stated that vaccines have helped in the eradication of various infectious diseases such as smallpox in human beings, rinderpest in animals etc. He added that scientists are working to develop a suitable vaccine to eradicate many other diseases such as polio, cancer, etc. He mentioned

that the process of development of a new vaccine generally takes 10–15 years as it has to undergo various stages such as Exploratory Stage, Pre-Clinical Stage, Approval for Investigational New Drug Application from the Drug Control Authorities through three-phase testing process in the Clinical Development Stage, and Development of New Vaccines Stage. He underlined

that the sole purpose of vaccine development is to train our immune system to recognize pathogens (disease causing organisms), foreign antigens and develop immunity against them. During his lecture, he discussed various types of vaccines, viz. Live antinuated Vaccines, Inactivated Vaccines, Subunit Vaccines, Recombinent Protein Vaccine, Toxoid Vaccine, Conjugate Vaccine, Nucleic Acid Vaccines, RNA Vaccines, DNA Vaccines etc. Dr. Srinivasan emphasized that COVID-19 pandemic has pushed the international scientific community to focus on vaccine development and inspired young researchers to build their careers in vaccine development. He put forward a suggestion to constitute a Vaccine Research Committee at the institutional level for the development of basic infrastructure to promote vaccine research.

At the start, Prof. R.K. Wusirika, Dean Incharge Academics, delivered the welcome address. Prof. Raj Kumar, Dean, School of Health Sciences, introduced the keynote speaker. Prof. Monisha Dhiman, Director IQAC, expressed gratitude towards the distinguished speaker and delivered a vote of thanks towards the end. Faculty, research scholars, and students from different departments of the university attended this programme.





February 11, 2022: CUPB IIC organized a motivational lecture on "Building Enabling Ecosystem: Translating Ideas into Action"

Under the patronage of Vice Chancellor Prof. Raghavendra P. Tiwari, Central University of Punjab, Bathinda (CUPB), Institutions Innovation Council (IIC), the flagship initiative of MHRD, organized a motivational lecture on "Building Enabling Ecosystem: Translating Ideas into Action". The event was organized in collaboration with Department of Geology, Central University of Punjab. The distinguished resource person of the event was Prof. Mrutyunjay Suar, CEO and founder of KIIT-Technology Business Incubator (KIIT-TBI) Bhubaneshwar. KIIT-TBI is a center of excellence, supported by the Department of Biotechnology, GOI and other funding bodies which promote deep tech startups.

In the lecture, Prof. Mrutyunjay Suar emphasized the need for innovation and technology transfer. He introduced the students to technology innovation ecosystems and how to build a path from innovative ideas to entrepreneurship. For students, he explained the platforms and innovative programs for technology development. Throughout the lecture he emphasized that "in India, if you have innovative idea, there are lots

of platforms which can provide you with fundings". He talked about different government schemes such as Social **Innovation Immersion Program** (SIIP), Students Innovations for Translation and Advancement of Research **Explorations** (SITARE), DST NIDHI Entrepreneurs in Residence



Prof. Mrutyunjay Suar

(EIR) etc which aim to supports ideas which have commercial potential

The program started with welcome address by Prof. Monisha Dhiman, IIC President and Dr. JK Pattanaik, IIC Vice-President who introduced the distinguished speaker. Faculty members, research scholars and students were present during the programme and it ended with a vote of thanks by Dr. Preeti Khetrapal, IIC Convener.

February 15, 2022: CUPB IPR Cell & IIC Cell organized "My Story - My Motivation Session"

The Intellectual Property Rights cell (IPR Cell), Institution's Innovation Council (IIC) of the Central University of Punjab organized "My story- Motivational Session by successful Entrepreneur/startup founder". The Keynote Speaker of this programme was Mr. Karan Garg, Director, Multimelt Steels, Pvt. Ltd.



Mr Karan Garg

Mr Karan Garg did his Bachelor of Technology (Pulp and Paper Engineering) from Indian Institute of Technology (IIT) Roorkee, India and Masters of Business Administration (MBA Program)from Kellogg School of Management, Evanston, IL, USA. He is currently the Director of Multimelt Steels Pvt Ltd, Punjab. He was also the founder of FRESHSUPPLY. His IOT based analytics solution for SMEs was selected by Neuron STPI Incubator for startups, Govt. of India. He has also been awarded the Appreciation Award by the Ministry of Steel, Govt. of India for B2B procurement engine ideas for SMEs.

Mr Karan Garg talked about the hardships faced by him in his journey of becoming an entrepreneur. He encouraged the youngsters to think about innovative solutions for specific problems of society and work towards its implementation.

February 18, 2022: Central University of Punjab organized a Webinar on Empowerment of Women: A Legal Perspective

The Internal Complaint Committee, Central University of Punjab, Bathinda (CUPB) under the patronage of Vice Chancellor Prof. Raghavendra P. Tiwari organized a webinar on "Empowerment of Women: A Legal Perspective". The keynote speaker of this programme

was Prof. Viney Kapoor Mehra, Vice Chancellor, Dr. B.R. Ambedkar National Law University, Sonipat, Haryana.

While addressing the participants, Prof. Viney Kapoor Mehra defined women's empowerment as the power of women to take decisions in their family and society. She





cited various samritis to demonstrate that the ancient Indian civilization granted women various rights to make independent decisions for living a respectable life, which were misinterpreted by the British Empire when they imposed English law on us. She mentioned that the Government of India has formulated various laws after independence for the empowerment of women at political, social, and economic levels, viz., the 73rd Constitutional Amendment Act 1992 related to the reservation of 1/3rd seats for women at Panchayat Level, the Protection of Women at Work, Sexual Harassment of Women at Workplace Act 2013, the Equal Remunration Act 1976, the Dowry Prohibition Act 1961, the Maternity Benefit Act 1961, the Medical Termination of Pregnancy Act 1971, the Prohibition of Child Marriage Act 2006, etc. She emphasized that real empowerment of women can be possible through education and that parents should allow their girl child to get free under Right of children to get Free and Compulsory Education 2009.



Prof. Viney Kapoor addressing the participants

At the start of this programme, Dr. Monisha Dhiman, Director IQAC, welcomed the participants. After this, Prof. Anjana Munshi, Dean Research, introduced the keynote speaker. Towards the end, Prof. Amandeep Kaur gave a formal vote of thanks. CUPB faculty and students participated in this programme.

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March 9, 2022: Central University of Punjab and GOI Office of the Controller General of Patents, Designs and Trade Marks jointly organized Intellectual Property Rights Awareness Programme

The Intellectual Property Rights Cell and Institution's Innovation Council of the Central University of Punjab, Bathinda in association with the Office of the Controller General of Patents, Designs and TradeMarks, Department for Promotion of Industry and Internal Trade, Ministry of Commerce & Industry, Government of India, jointly organized an Intellectual Property Rights Awareness Programme. The keynote speakers of this programme were examiners of patents and designs Mr. Gaurav Kumar Tomar and Ms. Nekita Kumari. Around 437 participants including students, research scholars and faculty members registered for this programme.



Mr. Gaurav Kumar

In the first session, Mr. Gaurav Kumar stated that Intellectual Property Rights (IPR) are the rights given to individuals over the creations of their minds for their exclusive commercial use over a certain period of time. He discussed different IPs that an individual can file for a single product, such as

Patent, Design, Trademark, Copyright, SICL Design. He also talked about various acts established to ensure these IPs, such as the Copyright Act 1957, the Patents Act 1970, the Trade Mark Act 1999, Geographical Indications of Goods (Registration and Protection) Act, 1999, the Design Act 2000, and the Semiconductor Integrated Circuits Layout-Design Act, 2000. He detailed the different steps involved in the grant of a patent, i.e., submission of a patent application, patent application

publication, examination by the IPO, office actions, and patent grant. He highlighted that all processes and products having the features of novelty, inventive step, being capable of industrial application and not falling under section 3 and 4 of the Patent Act 1970 have a higher scope of patentability.



Ms. Nekita Kumari

In the second session, Ms. Nekita Kumari deliberated on the criteria and registration procedure for different types of IPs. While discussing the strategies for 'IP Creation, Development, and Management' aiming to increase revenue, she highlighted that the rights of these IPs are territorial and their separate

registration is required in most countries. She stated that a good trademark should be distinctive and not deceptively similar to competitors. She emphasized that curators of IPs should first protect their IP by completing its registration process before publishing it in any journal/publication.

At the outset, Dr. Ramanpreet Kaur welcomed the participants. This was followed by the introduction of distinguished speakers by Dr. Preeti Khetarpal. Towards the end, Prof. Monisha Dhiman, IQAC Director, gave the concluding remarks. She thanked students, research scholars, and faculty for their active participation in making this program a success.







NSS & Azadi Ka Amrit Mahotsav Activities

February 4, 2022: Social Awareness Campaign launched on World Cancer Day

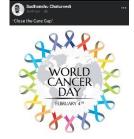


The NSS Cell of the Central University of **Puniab** organized an online awareness campaign to observe "WORLD CANCER DAY-2022". In this campaign volunteers are requested to post the

Photo/slogan/poster/status on the awareness of Cancer

on social media in dignified way i.e. Twitter, Instagram, facebook etc.

Students and NSS Volunteers participated in this awareness campaign with full enthusiasm by posting the messages for cancer awareness on their social media handles.



Social Media Post by NSS Volunteer

March 3, 2022: Central University of Punjab organised a plantation drive to develop Mango Orchards

The Central University of Punjab, Bathinda (CUPB), under the patronage of Vice Chancellor Prof. Raghavendra P. Tiwari, organised a plantation drive at its campus for the establishment of Mango Orchard. The saplings for the establishment of Mango Orchard were brought from the plant nurseries of Haryana and Rajasthan.

On this occasion, Prof. Raghavendra P. Tiwari, the Vice Chancellor, along with Shri Kanwal Pal Singh Mundra, Registrar, Prof. Vinod Kumar Garg, Dean Student Welfare, and Prof. Monisha Dhiman, Director, IQAC, inaugurated the programme by planting tree saplings at the mango orchard earmarked near "Gariha Nakhshatara Rashi Vatika". A total of 40 mango tree saplings were planted during this campaign by faculty and staff members.

Vice Chancellor Prof. Tiwari appreciated the efforts of Dr. Paramveer Singh and Dr. Mahesh Meena for

arranging the plant saplings. He made an appeal to each member of the CUPB fraternity to adopt a tree and devote some time to nature by making efforts to preserve our natural environment.



Group Photograph of Vice Chancellor Prof. R.P. Tiwari along with faculty and staff members during the plantation drive

March 8, 2022: Central University of Punjab organized series of events to commemorate International Women's Day 2022

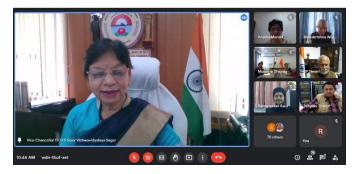
The Central University of Punjab, Bathinda (CUPB), under the patronage of Vice Chancellor Prof. Raghavendra P. Tiwari, celebrated International Women's Day-2022 by organising a webinar, a speech competition, and a Nukkad Natak.

On this occasion, the Internal Quality Assurance Cell and Internal Complaint Committee of the university organized a special invited lecture on the theme of "Women Leadership in breaking the bias". The distinguished speaker of this programme was Prof.





Neelima Gupta, Hon'ble Vice Chancellor, Dr. Harisingh Gour Vishwavidyalaya, Sagar.



Prof. Neelima Gupta addressing the participants

While addressing the participants, Prof. Neelima Gupta stated that despite having a small percentage of senior leadership positions, women have made significant contributions in various professions. She emphasized on the need of ending gender discrimination by increasing the share of women leadership in government and private organizations, reducing the Noble Prize gender gap, and building an equitable world for men and women. She claimed that the remarkable work done by International Women Leaders such as Jacinda Arbern (Prime Minister, New Zealand), Sanna Marin (Prime Minister, Finland) and others in combating COVID-19 pandemic exemplifies women's great potential. She encouraged young female students to build their career in education and research by drawing inspiration from India's outstanding female scientists especially Anandibai Joshee (first Indian women doctor qualified to practice western medicine), Kamala Sohonie (first Indian women to get PhD in scientific discipline), Darshan Ranganathan (known for pioneering work in Bio-organic Chemistry), Maharani Chakravorty (Creator of the first laboratory course on recombinant DNA techniques in Asia), Tessy Thomas (Missile Women of India) etc. Prof. Gupta underlined in her speech that motivation to women in leadership roles would pave the way in realizing the dream of AtmaNirbhar Bharat.

The Vice Chancellor, Prof. Raghavendra P. Tiwari, praised Prof. Gupta for her exceptional contribution as the first female Vice Chancellor of Dr. Harisingh Gour Vishwavidyalaya. In his presidential address, Prof. Tiwari

mentioned that our ancient tradition and values have always taught us to respect women (matrishakti) as a source of knowledge, power, love and compassion, which our future generations should emulate. He said that we should celebrate all forms of matrushakti like mother, sister, daughter, wife, grandmother, aunts, sister inlaw etc. and respect the organic relationship lies therein. This way, we can guarantee equal rights for women.



CUPB students performing Nukkad Natak

After the invited lecture, the NSS Cell of the university organized a speech competition, during which CUPB students demonstrated their oratory talent by sharing their perspective on the topic of `Gender Equality today for a sustainable tomorrow' and 'Unsung Heroes: Role of Women in Freedom Struggle'. Malkeet Singh, Ayushi and Ankita got the first, second and third position respectively in this competition. In addition to this, students also exhibited a stunning performance in a Nukkad Natak to advocate Gender Equality and Women Empowerment.

At the outset Prof. R.K. Wusirika, Dean Incharge Academics, welcomed the participants and discussed the history and significance of International Women's Day. Prof. Anjana Munshi, Dean Research introduced the keynote speaker. Towards the end, Prof. Monisha Dhiman, Director IQAC, gave a formal vote of thanks. Students, faculty, and staff members from the university attended this programme.

March 11, 2022: Medical Health Check Up Camp organized at Central University of Punjab

The NSS Cell of the Central University of Punjab, Bathinda (CUPB) in collaboration with IVY Hospital, Bathinda organised a Medical Health Check Up Camp at its campus. During this programme the medical expert team led by Ms. Simmi Sharma visited CUPB campus.

The team gave provided Gynecologist consultation and Physiotherapy services. In addition to this, they checked BP, Sugar and ECG of students and employees.





March 22, 2022: Central University of Punjab organized a special lecture on "UPSC expectations from Civil Service Aspirants"

The Competitive Examination Cell and NSS Cell of the Central University of Punjab, Bathinda (CUPB), under the patronage of Vice Chancellor Prof. Raghavendra P. Tiwari, hosted a special lecture on "UPSC expectations from Civil Service Aspirants" on Monday. The invited speaker of this programme was Ms. Priyanka Das, IAS (2009 Batch), Managing Director, National Health Mission, Madhya Pradesh. Around 250 students and research scholars from different departments of the university attended this programme.

While addressing the participants, Ms. Priyanka Das, IAS (2009 Batch), stated that UPSC Civil Services Examination (CSE) is the highest competitive examination conducted by Union Public Service Commission of India that allows an individual to venture into Indian Administrative Service (IAS), Indian Police Service (IPS), Indian Foreign Service (IFS) and other fields. She emphasized that candidates should clearly define their objective of appearing in UPSC CSE as they would have to mention it before the interview panel. She pointed out that to qualify a UPSC Civil Service Examination, aspirants have to pass the three different levels of examinations i.e. UPSC Prelims, UPSC Mains and UPSC Interview, where they have to demonstrate their skills related to comprehension of current affairs and aptitude within the stipulated time, ability to present knowledge in a clear and coherent manner, and intellectual qualities. She asserted, while preparing for UPSC Exam, a candidate should focus on developing their time management skills, critical powers of assimilation, logical ability, balanced judgement and ability for social cohesion. She advised the UPSC CSE aspirants to prepare diligently to devote their effort to

three different levels of UPSC preparation in the ratio of 10:70:20, , to sit in the UPSC exam only after minimum 1 year preparation and to avoid wasting a UPSC Exam attempt without preparation.



Ms Priyanka Das (IAS) addressing the participants

The lecture session was followed by a Question Answer Session in which Ms. Priyanka Das provided insightful answers to the questions of the participants on the topics of important sources of current affairs, time-table for upsc exam preparation etc.

At the outset, Dr. Shahila Zafar, Chairperson, Competitive Examination Cell, welcomed the participants and introduced the invited speaker for the programme. Prof. Monisha Dhiman, Director of IQAC, expressed her gratitude towards the invited speaker for enlightening the participants with her words of wisdom. She gave a formal vote of thanks towards the end of the programme.

March 23, 2022: A special programme organized to commemorate Shaheedi Diwas at Central University of Punjab



Prof. Jasbir Singh Sidhu addressing the participants

The Central University of Punjab commemorated Martyrs' Day (Shaheedi Diwas) by organizing a special invited lecture and a pledge ceremony. The Dept. of History and the NSS Cell of the university conducted this programme under Azadi ka Amrit Mahotsav Series to pay

tribute to independence heroes Sardar Bhagat Singh, Shivaram Hari Rajguru and Sukhdev Thapar. The Guest of Honour for this programme was the well-known academician Prof. Jasbir Singh Sidhu, former Dean of Student Welfare, Guru Kashi University, Talwandi Sabo.

The Guest of Honour Prof. Jasbir Singh Sidhu, delivered a lecture on 'Life and Philosophy of Shaheed-e-Azam Bhagat Singh'. He stated that Bhagat Singh was a great Indian revolutionary who participated in the symbolic bombing of the Central Legislative Assembly in Delhi and a hunger strike in jail that inspired the people of India to raise their voice against the atrocities of foreign rule. He discussed the influence of the great culture of Punjab and the freedom fighters of the period in igniting Bhagat





Singh's enthusiasm to be determined to contribute in India's Independence Movement right from his school days. He asserted that Bhagat Singh got the status of Shaheed-e-Azam not just because of his unique qualities such as patriotic zeal, fearlessness, courage, and cooperative nature, but also because of his wider vision for the people of independent India, which is reflected in his literary works.

On this occasion, Prof. Raghavendra P. Tiwari, the Vice Chancellor, remembered the selfless services of the Martyrs, Shaheed-e-Azam Veer Bhagat Singh, Sukhdev, and Rajguru. He added that the patriotic thoughts and

sacrifices of the immortal sons of Mother India would always inspire our citizens to contribute to the nation's development and to treat everyone with courtesy.

After this, NSS volunteers and students took the National Pledge. The programme commenced with an introduction of the theme by Dr. Harit K. Meena, the programme convener. Dr. Ashwani Kumar gave the welcome address and expressed gratitude towards the special guest. Dr. K.R. Palsania proposed a formal vote of thanks. Faculty, staff members and students of the university attended this programme.

Eight-Day 13th Foundation Day Celebrations

February 21—27, 2022: CUPB Students showcased their talent in various cultural and extra curricular events organized as a part of eight-day 13th Foundation Day Celebrations

The eight-day 13th Foundation Day Celebrations of the Central University of Punjab, Bathinda (CUPB) featured various cultural and extra curricular events during which University students exhibited their talent.

▶ Matri Bhasha Diwas Celebrations: On the opening day, a special programme was organized to commemorate International Mother Language Day. During this programme, students from 25 states studying at the university, faculty, and staff members represented their mother language by reciting poems and singing songs in their regional language. The performances were held in various Indian languages and regional dialects such as Hindi, Kannada, Odia, Urdu, Punjabi, Telugu, Marathi, Mizo, Malayalam, Haryanavi, Awadhi, Magahi, Bhojpuri, Sambalpuri, Kashmiri etc.



Group Photograph of Participants

On this occasion, Prof. Raghavendra P. Tiwari, the Vice Chancellor, stated that the initial 13-year growth journey of CUPB is commendable during which the university has made its mark among the top 100 universities in India (NIRF Rankings). He asserted that CUPB Foundation Week Celebrations are unique as they provide an opportunity for students to bring forward innovative ideas as budding entrepreneurs, understand each other's culture, and exhibit their talent in academic and cultural activities.

On the third day, Kite Flying, Rangoli Making, Best out of Waste and Ad Mad Show Competitions were organized.



Students presenting their Rangoli Art during Rangoli Making

Competition

▶ International Quiz Competitions: In addition, a total of four international quiz competitions were organized in this period as a part of the 'Azadi Ka Amrit Mahotsav'





and 'Ek Bharat Shreshtha Bharat' programme series, during which around 2700 participants registered from India and 23 foreign countries. The winners of first and second quiz competitions held on the theme of 'Unsung Heroes of the Indian Freedom Struggle from Punjab' and 'Knowledge Traditions in Sapta Sindhu Region' were Dr. Neha Nema (University of Delhi) and Mr. Arsh Kumar (CUPB student) respectively. At the same time, Kapil Garg (CUPB student) and Shantakar Mohanty (Cuttack) secured the first positions in the third and fourth quiz competitions held on the theme of 'Sustainable Future' and 'Contribution of India in Science and Technology'.

National Bird Survey 2022: Apart from this, citizens from all across India have participated in the National Bird Survey 2022 hosted by the University and have shared photographs of birds in their neighbourhood, including the rarest bird species such as Baillon's crake, Brahminy starling (Sturnia pagodarum), Golden Oriole, Red Wattled Lapwing, White Bellied Sea Eagle, Greyheaded swamphen, Rain quill, black billed magpie, Little ringed plover, Black winged stilt, Greyheaded swamphen, hoopoe, jungle babble and drongo, white breasted kingfisher, red wattled lapwing, Brahmini myna, Common myna, Rufous tree-pie, sparrow, Indian Rock Chat etc.

▶ Food Carnival: On the seventh day of the 13th Foundation Day Celebrations, the Central University of Punjab, under the patronage of honourable Vice-Chancellor Prof. Raghavendra P. Tiwari, organised a Food Carnival-2022 'Vyanjan Path' at its campus. During this programme, students from 25 states studying at the university and staff members exhibited their cookery and culinary skills by preparing famous cuisines of their state and authentic Indian flavours under one roof.



Vice Chancellor Prof Tiwari along with Registrar Shri KPS Mundra and Chief Guest Smt Harpal Kaur inspecting food stalls during the Food Carnival

At the beginning, Vice Chancellor Prof. R.P. Tiwari, along with Registrar Shri Kanwal Pal Singh Mundra and the Chief Guest Mrs. Harpal Kaur, inaugurated the programme. During this food carnival, a total of 34 teams put their food stalls and served regional, traditional, and festival cuisines from all across the country.

On this occasion, CUPB students served authentic cuisines of various states of our country, like Punjab, Jammu & Kashmir, Uttar Pradesh, Andhra Pradesh, Kerala, Bihar, West Bengal, Orissa, Maharashtra, West Bengal, Tamil Nadu, Manipur, etc. The Chief Guest, along with jury members, visited every stall and tasted mouth-watering delicacies freshly prepared by the students and staff members. They appreciated the participants for preparing delicious food and congratulated the organizing team for smooth execution of this programme.

Some of the exotic cuisines presented in this food carnival were Idli Sambar, Litti Chokha, Mirchi Pakoda, Uttapam, Raj Chakori, Dalma, Paneer Tikka, Cholar Dal, Singju, Rasam, Biryani, Qabuli Pulao, Mudhi Mansa, Kakra Pitha. During this carnival, students also served famous street foods from different states, such as Jhal Muri, Misal Pav, Aloo Chat, Momos, Bhel Puri, Sabudana Tikki, Papad Chat, Peas Kachori, Soya Champ, Odia Dahi Vada, etc. This carnival also includes some unique and mouth-watering desserts and beverages Kuzhukatta, Rassagulla, Chocolate Pudding, Gajar Halwa, Kesar Kheer, Fruit Raita, Rose Sharbat, Jaljeera, Virgin Mojito, Kulukki Sharbat, Avil Milk, Tanka Torani, Samak Kheer, Ice Cream, Kava Chai, etc. University students, faculty, and staff members, along with their families, visited this food fest and enjoyed the delicacies.

During these celebrations, CUPB students actively participated in various competitive events, such as Idea Hunt, Ad Mad Show, Documentary Making, Idea Hunt, Singing and Dance Competitions.





February 21—27, 2022: Eminent academicians and acclaimed scientists interacted with CUPB students during the Foundaiton Week Lecture Series Celebrations

The week long 13th Foundation Day Celebrations also featured a lecture series by eminent academicians and scientists. A total of ten invited lectures by famous personalities were organized through online mode under the Foundation Day Lecture Series.

The distinguished speakers who delivered the first set of five lectures, organized from February 21-23, were Prof. Kuldip Chand Agnihotri (Advisor to the Minister, Ministry of Culture, Govt. of India), Prof. Girishwar Mishra (Former Vice Chancellor, Mahatma Gandhi Antarrashtriya Hindi Vishwavidyalaya), Prof. Krishna N Ganesh (Director, IISER Tirupati), Prof. Alok Shrotriya (Indira Gandhi National Tribal University, Amarkantak) and Prof. J. Gowrishankar (Director, IISER-Mohali). The second set of five lectures, conducted from February 24-26, were delivered by Dr. Bharat B. Kale (Director General, C-MET India), Prof. Paramjit Singh Judge (Former Professor, GNDU), Shri Jayant Sahasrabudhe (National Organizing Secretary, Vigyana Bharati), Prof. Ranjana Aggarwal (Director, CSIR-NIScPR), Prof. Rajeev Ahuja (Director, IIT Ropar) and Prof. Y.K. Gupta (President, AIIMS, Jammu and Bhopal).



Prof. K.C. Agnihotri

K.C. Prof. **Agnihotri** (Advisor to Minister, Ministry of Culture, Govt. of India) explained in-depth "Knowledge Tradition Sapta Sindhu Region". stated that "Sapta Sindhu" region of the present times includes today's North-West region of India, areas of **Pakistan** Punjab and

Afghanistan. The region was fed by seven rivers.

While addressing the participants Prof. Kuldip Chand Agnihotri stated that Sapta Sindhu region has made enormously contributed to the World as this region gave the one among the best University of ancient times in the form of 'Takshashila University', first recorded Manuscript of ancient times in the form of 'Rigveda' and one among the ancient Civilization with modern characteristics in the form of 'Indus Valley Civilization'. He asserted that ancient holy scriptures of this region enlightened the generations that knowledge is the continuous process which has led to the emergence of schools of philosophy. He highlighted that Dasam Guru Parampara of 10 divine Gurus has preserved the Indian Knowledge Traditions in this region. Chairavaiti-2 (keep

walking in search of knowledge) message of Vedas was the ultimate essence of the lecture.

Prof. Girishwar Misra (Former Vice Chancellor,



Prof. Girishwar Misra

Mahatma Gandhi Hindi Antarrashtriya Vishwavidyalaya) delivered a lecture on the "Role of Youth in Nation Building". Youth are the of a country. investment in their education and skills enhancement will turn them into golden assets. Considering the large percentage of the Indian

population is young, India can achieve socio-economic targets quickly. He said that our education system is individual-centric rather than being society-centric. Capitalistic values are ingrained and social ones are sidelined. The majority of the population relies on meagre resources, while a majority of resources are concentrated in a few hands. Indian educational institutions should work on the character-building of the young mind and inculcate decision-making ability among young minds for their overall development. The inclusion of self-reliant policies in our system will definitely boost the confidence of young people.

• Prof. Dr. Krishna N. Ganesh (Founder Director, IISER



Prof. K.N. Ganesh

Tirupati) spoke on spine surgery of peptide nucleic Acids (bm-PAN): Upgrading PNAs for multi stranded assemblies'. He explained DNA structure and how DNA can form not only duplex and triplex but also a tetraplex structure. He said, "It's all the magic of hydrogen bonding." He also

talked about chemical modification of Oligonucleotides and Peptide Nucleic Acids; Backbone modified PNA analogues, spinal surgery of peptide nucleic acids, and solid phase synthesis of bimodal PNAs; and explained the drug discovery processes.





Prof. J. Gowrishankar (Director, IISER. Mohali)



Prof. J. Gowrishankar

delivered a special online lecture 'Role of on Redundancy in Securing the of Integrity Genetic Information." He spoke about how a copy of a DNA molecule is made and how this copying can be corrupted carcinogens, reactive oxygen species, and electromagnetic and ionising radiation. He

said, "DNA information is stored in multiple copies, so if one strand is corrupted, authentic information can be retrieved from another." There is more than one way of detecting and/or repairing corrupted files, and that process is called "redundancy." He also explained the process of correcting different forms of damage in a DNA code, including DNA gymnastics for one strand damage and homologous recombination for two strand damage. He added that redundancy underpins synthetic lethality, which can in turn underpin cancer treatment.



Prof. Bharat B. Kale

Prof. Bharat B. Kale
 (Director-General, C-MET, India) delivered a talk on "Nanoscience and Nanotechnology in Emerging Semiconductor Engineering". He shared his journey of developing C-MET labs at Pune, Thissur,

and Hyderabad and explained the kinds of different research projects going on in these institutes. Speaking on the research and development programme ongoing at C-MET, he said: "The core programme of C-MET is divided into specializations including nano materials and devices, piezo sensors and actuators, materials for renewable energy, RoHS and e waste, ultra-high purity and semiconductors, integrated materials and among others." This electronic packaging, instrumental in contributing to the vast research ongoing in these fields at the global level and contributing to solutions to problems in the real world. " In his lecture, he spoke on hierarchical structures, Ndoped nanostructures, and quantum dot glasses. "By confinement of Ag3PO4 quantum dots into a glass matrix, we can solve the photo corrosion problem and come up with highly efficient, recyclable photo catalysts," he added, showing real images of such glasses.



Prof. Paramjit Singh Judge

• Prof. Paramjit Singh Judge (Guru Nanak Dev University, Amritsar), in his lecture, discussed the issues in the nature of science and social science. The revolution of science is marked by the Copernican concept, which says that the sun is the centre of the universe. Also, World

War II immensely influenced the social sciences. There are major differences between the nature of the processes of science and social science. Science is based on the nature of 'falsification' as argued by Karl Popper. In science, hypotheses are made and they are either proved or disproved. It is always developing and gives falsifiable answers. Whereas Social Science is different as ideas are not rejected and falsified rather they remain forever or improved on.



Prof. Rajeev Ahuja

 Prof. Rajeev Ahuja (Director, IIT Ropar) threw light on "Advanced Materials for Energy Applications" with visual explanations. He emphasized the significance of production, storage, and consumption of energy. Nuclear power, hydropower, and coal serve as primary sources of energy production across the globe. The continuous and rigorous use of non-

renewable energy is bringing us the potential threat of a shortage of energy resources. Almost 80% of energy is the end-result of non-renewable resources. So, the shift to renewable resources would be the biggest challenge, said Prof. Ahuja.

The solution found by the scientist is the "Hydrogen Economy". The reasons for the emergence of hydrogen as a solution are that it is the lightest material on the periodic table, is in abundance and it packs the highest energy per unit mass of any element. He concluded with the vision that if the hydrogen economy became successful, then you could put water in planes and roam around the world.

• **Prof. Sahastrabudhe** (National Organizing Secretary, Vijnana Bharati) and **Prof. Ranjana Agarwal** (Director, CSIR) expressed their views on 'Role of Indian Scientists in the Freedom Movement'.







Prof. Ranjana Agarwal

Prof. Ranjana Agarwal started the lecture by remembering our freedom fighters like Lala Lajpat Rai, Bhagat Singh, Sukh Dev, Uddham Singh, and Nobel laureates Chandra Sekhar, Hari Govind Khurana, and Muhammad Abdus Salem from Punjab. She enlightened the students about a futuristic roadmap that should be based on a

solid foundation and advised them not to copy the scientific models from the West but to do research to find indigenous solutions to our country's specific problems. She said that only then we can provide academic freedom to our country.



Prof. J. Shastrabhude

Prof. Shastrabhude about spoke the importance of Azadi Ka Amrit Mahotsava, which gave us a chance to celebrate our freedom fighters and discussed the five sutras of the Mahotsava, which included freedom movement, new

imagination for new ideas, achievements at 75, actions at 75, and resources at 75. He emphasized that when we walk by mixing national sentiments with intelligence, then the nation is formed; and if we separate the

research of the wisdom of science from patriotism, then nothing will come out.



Prof. Y.K. Gupta

Prof. Y.K. Gupta (President, AlIMS, Jammu and Bhopal) delivered a lecture on the topic of "Horizon of Scope for Pharmaceutical Fresh Professionals." He emphasized that employability is more important than qualification

and talked about four quotients, which are very important for employability. The first quotient he discussed was the intelligence quotient, followed by the diligence quotient, which means that everyone should put their energy in a channelized manner and one should not necessarily follow others but think differently in an innovative manner. Then he talked about emotional and attitude quotients, stressing the need to take risks and challenges that others are not ordinarily willing to take so that one can succeed in life. Then he advised the students to make connections, go to manufacturing units of GMP and GMP WHO and learn what the regulatory requirements are for GMP export. He stressed that employability will increase if you have obtained formal training or attained workshops and identify opportunities at the right time.

Students, researchers, and faculty from India and abroad watched these online lectures available on University's Youtube Channel.

Webinars / Invited Lectures

February 8, 2022: Workshop on Agri-Entrepreneurship organized at Central University of Punjab

The Department of Applied Agriculture, Central University of Punjab, Bathinda (CUPB), under the patronage of Vice Chancellor Prof. Raghavendra P. Tiwari, organized a workshop on "Agri-Entrepreneurship" on Tuesday. The distinguished speakers of this programme were Mr. Manas Miraji, Director, Vfarmz Supply Chain Pvt. Ltd., and Mrs. Annu Kanawat, Director, Aamlda Organic Food and Research Center Pvt. Ltd.

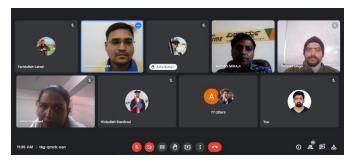
In the first session, entrepreneur Mr. Manas Miraji shared his entrepreneurship journey. He stated that he and his friend thought of starting their own company, 'Vfarmz Supply Chain Pvt. Ltd.' in 2019, after gaining practical experience in the agri-input and supply chain industry, and gaining a deep understanding of the workings of markets. The firm is involved in the production of Bio-fertilizers, Bio-pesticides and Stimulants with the objective of reducing chemical





applications in agriculture and rejuvenating soil health. He explained the benefits of moving to organic farming and the challenges faced by him while convincing the farmers to switch to organic farming practices. He also explained how to handle the personal and professional issues, manage the workers in the organization and the B2B and B2C business models adopted by his firm.

In the second session, another entrepreneur, Mrs. Annu Kanawat, informed the participants about her startup, 'Aamlda Organic Food and Research Center Pvt. Ltd'. The firm is involved in the production and value addition of Mushrooms in Rajasthan. After taking the training on mushroom farming, she started her own production unit by investing a small amount of Rs. 5000/-and yielded a revenue of Rs. 12,000. After gaining confidence in the business, she established her firm in 2020. In the initial period, her business was affected due to the COVID-19 lockdown. Then she started processing the mushrooms and preparing mushroom powder, mushroom pickle, blue tea, etc. Later, she received a grant of Rs. 25 lakhs from the RKVY-RAFTAAR scheme of the Government of India for expanding her business. She also explained the challenges faced by her, especially as a female entrepreneur; the support extended by her family members; the innovation of the business on a regular basis based on the demand in the market, etc.



Participants interacting with Guest Speakers during the programme

At the outset, Prof. Anjana Munshi, Dean (Research) and HOD, Department of Applied Agriculture, while delivering the welcome address, informed the students that there are many opportunities for them to build an entrepreneurial career in the agriculture sector, such as dairy, fishery, poultry, goat farming, sheep farming, hydroponics, vermicomposting, etc. She also mentioned that the Government of India is attracting and supporting young minds through various schemes such as RKVY-RAFTAAR, Agri-Clinics and Agri-Business Centres Scheme, Pradhan Mantri MUDRA Yojana, etc. to boost agri-entrepreneurship in India. Dr. Chidanand Patil introduced the keynote speakers. Dr. Surjeet Singh Dhaka delivered the formal vote of thanks. Faculty, research scholars, and students from different departments of the university attended programme.

February 16—17, 2022: Women Training Programme on Food Processing and Preservation Techniques organized at Central University of Punjab

The Department of Applied Agriculture (Food Science & Technology), Central University of Punjab under the patronage of Vice Chancellor Prof. Raghavendra P. Tiwari organized a two-day Women Training Programme on Food Processing and Preservation Techniques on 16 & 17th February 2022.

The main objective of this programme was to impart hands on training to female participants on the preparation of bakery products on a small-scale level and to create awareness among them about various food-based start-ups run by women.

At the inaugural ceremony, Prof. Anjana Munshi (HoD, Department of Applied Agriculture & Dean, Research), welcomed the participants. She emphasized that this programme is a step forward to accomplishing the mission of spreading awareness of food processing techniques at grassroot level for proper utilization of fruits and vegetables.

After this, Dr. Yashi Srivastava, training programme incharge, shared that the Department of Applied



Group Photo of Participants with programme organizers

Agriculture is running two PG Programmes (M.Sc Food Science Technology and MBA Agribusiness) to enable youngsters to explore the potential of agriculture and food processing sector-based start-ups.

On this occasion, Prof. R.K. Wusirika, Dean Incharge Academics, and Prof. Monisha Dhiman, Director IQAC,





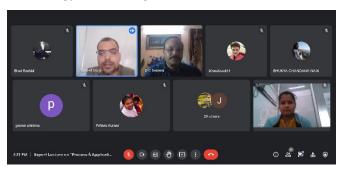
encouraged the participants to learn the scientific processing and quality maintenance of food products.

During this two day training programme, Mrs. Gagandeep Kaur provided hands-on training on bakery

products such as cookies, cup-cakes, etc. to participants. CUPB staff, family members, and students attended this programme.

March 7, 2022: An expert lecture on 'Process And Application Of Food Gels' organized by Department of Applied Agriculture, Central University of Punjab, Bathinda

Under the patronage of Vice Chancellor Prof. Raghavendra P. Tiwari, the Department of Applied Agriculture (Food Science & Technology), Central University of Punjab organized a virtual expert lecture on 'Process and Application of Food Gels' on March 07, 2022. The distinguished speaker of the programme was Prof. D. C. Saxena (HOD, Dept. of Food Engineering and Technology, SLIET, Longowal).



Prof. D.C. Saxena addressing the participants

While addressing the participants, the guest speaker, Prof. D. C. Saxena, gave a detailed description of food gels, types of gelling agents (hydrocolloids and protein) with examples, food gel types, their nature and the rheological properties of gels. He also discussed about conditions of gel formation, factors affecting the food gels and characterization of gels. During this lecture participants learned about manufacturing process, testing parameters, mechanism of gel formation, food gels applications, current trends and research perspective of food gels with other important aspects of the topic.

The programme commenced with a welcome address by Dr. Yashi Srivastava. This was followed by the introduction of the keynote speaker by Prof. Anjana Munshi. Towards the end, Dr. Surjit Singh gave a formal vote of thanks. .

March 11, 2022: Central University of Punjab organized an expert lecture on "Applications of genomics for drought tolerance and disease resistance in soybean"

Under the patronage of Vice Chancellor Prof. Raghavendra P. Tiwari, the Office of the Dean Incharge Academic, Central University of Punjab, Bathinda (CUPB) organized an expert lecture on the topic "Applications of genomics for drought tolerance and disease resistance in soybean". The keynote speaker for this programme was Dr. Milind B. Ratnaparkhe, Principal Scientist (Biotechnology), ICAR-Indian Institute of Soybean Research, Indore.

While addressing the participants, Dr. Milind B. Ratnaparkhe stated that the soybean crop has gained popularity at the international level in the last few decades due to its high protein content (40% protein and 20% oil content). He suggested that the adoption of soybean crops by Indian farmers will not only reduce our imports of edible oil but also increase the soil fertility of land due to nitrogen fixation capabilities of this crop as it belongs to the Leguminosae family. He asserted that

soybean has made a positive impact on various industries including, food and feed industries, pharmaceuticals and Biodiesel production industries. Dr. Ratnaparkhe underlined that success of genetically the modified soybean in US, Brazil and other countries encouraged the scientists of our country to work on various



Dr. Milind B. Ratnaparkhe

molecular approaches for soybean improvement. He shared that the research studies conducted by the ICAR-Indian Institute of Soybean Research indicates that molecular breeding, genetic engineering approach and genome editing approaches have the potential to increase soybean yield by improving its drought, water logging, and abiotic-biotic stress tolerance; refining its seed composition; and enhancing disease resistance





capabilities. He highlighted that artificial intelligence and computational science techniques could also play a vital role in the effective implementation of the above approaches. He encouraged the scientists and research scholars of CUPB to initiate research programs on emerging fields such as large scale comparative genomics studies using whole genome sequences, functional genomics studies and specially genome editing technologies so that improved crop varieties can be developed for the welfare of society.

At the outset, Prof. R.K. Wusirika, Dean Incharge Academics started the proceedings with a welcome address. Towards the end, Dr. Ravindresh Chhabra, expressed his gratitude towards the distinguished speaker for enlightening the participants about emerging research trends. The programme was attended by students, research scholars, and faculty from different departments of the university.

March 29, 2022: Central University of Punjab organized an expert lecture on Culture as a Flow of Rivers: Reflections on 'Punjabi' Culture

The Department of Sociology at the Central University of Punjab, Bathinda (CUPB), under the patronage of Vice Chancellor Prof. Raghavendra P. Tiwari, organized an expert lecture on the topic "Culture as a Flow of Rivers: Reflections on 'Punjabi' Culture." The distinguished speaker of this programme was Prof. Paramjit Singh Judge, Professor of Sociology, Guru Nanak Dev University, Amritsar.

While addressing the participants, Prof. Paramjit Singh Judge stated that the journey of a culture is just like the flow of a river that assimilates popular values, behaviours, and beliefs in the process of cultural integration while preserving its core identity. He asserted that a proper and correct understanding of Punjabi culture can not be developed without understanding the message given in the Bani of Ten Sikh Gurus, novels, stories, folk music, and popular songs of Punjab. He highlighted that the heroic characters of the famous Punjabi romantic stories of undivided Punjab of 18th and 19th century, such as Heer-Ranjha, Mirza-Sahiba, Sohni-Mahiwal, and others, are still dominant in popular Punjabi music and liked by youngsters. He stated that the content analysis of recent punjabi songs reveals that while on the one hand young punjabi pop singers present a lavish lifestyle in their music albums to showcase the the bold punjabi nature and the ability of Punjabi's to achieve great success, still on the other hand the famous gharanas of punjabi classical music, such as Sham Chaurasia Gharana, Patiala Gharana etc., along with their communities, are still preserving the great classical music of Punjab. He stated that the young Punjabi female singers are also showcasing the bold nature of Punjabi women, which has been represented differently in contemporary pop culture. He also discussed the role of people of Punjab's diaspora and punjabi music in promoting the cultural heritage of Punjab on an international level. Prof. Paramjit Singh



Prof. Paramjit Singh Judge addressing the participants

deliberated on the impact of Dasam Guru Parampara of Kirat Karo, Naam Japo, Vand Chako; Meeri-Peeri; and Sant-Sipahi in inspiring people to walk on the path of selfless service (niswarth sewa for social welfare and sacrifice for others. He shed light on the cultural ties between different communities in Punjab and discussed the impact of Punjabi culture on changing people's spiritual beliefs as well as their way of life.

In his presidential address, Prof. Raghavendra P. Tiwari expressed his gratitude towards Prof. Paramjit Singh Judge for enlightening the participants with his words of wisdom. He expressed hope that this lecture would ignite new thoughts among budding researchers and encourage them to conduct good quality research for the benefit of society.

Towards the end, Dr. Aditya Ranjan Kapoor, HoD (Officiating), Dept. of Sociology, thanked the participants for making this programme a success. Faculty, research scholars, and students from various departments of the university attended this programme.







Invited Lectures (In brief)

Eminent academicians enlightened students during Invited Lectures organized by CUPB



Dr. Somnath Dutta

March 4, 2022: The Dept. of Microbiology, Central University of organized a Punjab, webinar entitled "Cryo-EM **Provides** Structural Insights into Infectious Disease Biology". The distinguished speaker of this programme was Dr

Somnath Dutta, Group Leader Prof. Pawan K.

Indian Institute of Science, Bangalore.



Dhar

2022: The March 16, Dept. Biochemistry, Central University of Punjab, organized Invited Talk on "Synthetic Biology: Concepts Applications". The keynote speakers of ths programme was Prof. Pawan K. Dhar, Former Dean, School Biochemistry, Jawaharlal Nehru University, New Delhi.



Dr.Sprida S. Rama Sastry

March 11, 2022: The Dept Pharmaceutical Sciences and Natural and the Dept. of Pharmacology organized a special lecture on "Our Tryst with Palladium" by Dr. Sprida S. Rama Sastry from Dept. of Chemical Sciences, Indian Institute of Science Education & Research, Mohali.



Dr. Sandeep B. Bharate

March 14, 2022: The Dept of Pharmaceutical Sciences and the Natural and Dept. of Pharmacology organized a special lecture on "Natural Products driven discovery of Leads for Modern Medicine". The distinguished speaker of this programme was

Dr. Sandeep B. Bharate, Principal Scientist, Dept. Natural Products and Medicinal Chemistry Devision, CSIR-Indian Institute of Integrative Medicine, Jammu.

March 4, 2022: The Department of Microbiology organized a webinar entitled "Cryo-EM Provides Structural Insights into Infectious Disease Biology" by Dr Somnath Dutta, Group Leader Indian Institute of Science, Bangalore. Cryo-electron microscopy (cryo-EM) was declared "Method of the Year" in 2015, in year 2017 the Nobel Prize in Chemistry was awarded for developing cryo-electron microscopy for the high-resolution structure determination of bio-molecules in solution.





Screenshot of the program

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Screenshot of the programme

March 11, 2022: Dept. of Applied Agriculture, Central University of Punjab, organized an expert lecture on 'Research Opportunities in Food Processing Industries' by Dr. Gaurav Kumar Pal, Sr. Food Technologist, Research & Development, Kriti Nutrients Limited. During this program, Dr. Gaurav Kumar Pal discussed the requirements of food processing industries and shed light on career opportunities in industrial research. The lecture session was followed by a Q & A session, wherein the expert speaker interacted with CUPB students.





Student Achievements

Paper Presentation by students in National & International Conferences

Sr. No.	Department	Name of Student and Faculty	Details		
1	Psychology	Faseeha K Nasarudeen, M.A First year)	Nasarudeen, F. K., & Marykutty, P.J. (February 2022). Emotional intelligence and learning styles in the academic achievement of college students. Paper presented at Dr. V. K. Alexander Memorial National Seminar on 'True to Self with Work and Life' organized by the Research and Post Graduate Department of Psychology, Union Christian College, Aluva Kerala.		
2	Psychology	Sooryapriya V. M (M.A Second year)	Sooryapriya V. M. (February, 2022). The relationship of parenting style towards decision making and social anxiety among adolescents. Paper presented at International Conference on Positive Parenting (ICPP-2022) organized by the Department of Psychology and the IQAC, Christ Nagar College, Maranalloor, Trivandrum in association with Assumption University of Thailand & Professional Psychologists of Kerala.		
3.	Psychology	Fayiz P V & Dr. Anugraha Merin Rajan, Assistant Professor	Kerala. Paper presented at 31st Convention of National Academy of Psychology 2021-2022		
4.	Psychology	Sanju P J & Dr. Anugraha Merin Rajan, Assistant Professor	Sanju, P.J., & Rajan, A. M. (March, 2022). Social avoidance and magical ideation among writers In Kerala. Paper presented at 31st Convention of National Academy of Psychology 2021-2022 organized by the Psychophysiology Laboratory, Department of Humanities and Social Sciences, Indian Institute of Technology Bombay.		

The List of students defended Ph.D. Thesis (February 2022 to March 2022)

Sr. No.	Registration Number	Name	Department	Viva held date
1	CUP/MPh-PhD/SEES/EVS/2011-	Jatinder Singh	Environment Science and	03.02.2022
	12/11		Technology	
2	CUPB/MpH-PhD/SLLC/CPL/2013-	Geetika Garg	Languages and	23.02.2022
	14/22		Comparative Literature	
3	15phdedu01	Richa Arora	Education	18.02.2022





Grants Sanctioned

Details of Project from 01.2.2022 to 31.03.2022

Sr. No.	Name of the P.I./ Faculty	Project Title	Funding Agency	Sanctioned Amount
1	Dr. Vinay Kumar, AP Department of Botany	Engineering Cotton Leaf Curl Virus Interference using the CRISPR-Cas9 System in Plants	DST-SERB	3,934,832
2	Dr. Manju Jain, Assistant Professor, Department of Biochemistry	Genetic and Functional Characterization of L. donovani isolates causing Atypical Cutaneous Leishmaniasis in the newer and understudied endemic state of Himachal Pradesh	ICMR	3,398,694
3	Department of Math & Stat	DST-FIST	DST-SERB	5,000,000
4	Department of Physics	DST-FIST	DST-SERB	16,500,000
5	Dr. Puneet Pathak, Assistant Professor, Department of Law	Promostion of Human Rights in the Rural Local Self Governance: Evidence from Punjab, Haryana and Himachal Pradesh	NHRC	931,358
6	Dr. Satwinder Singh. Associate Professor, Department of Computer Science and Technology	Big Data Dashboard for Analysis and Visualization of COVID Data-An Indian Scenario	ICMR	3,693,040
7	Dr. Nishtha Kaushiki, Assistant Professor, Department of South and Central Asian Studies	Reshaping of the Asian Power Dynamics: An Analysis of Russo-Pak Rapprochement	ICSSR	350,000
Total				33,807,924





RESEARCH PUBLICATIONS

List of Research Publications from 1st February 2022 to 31st March 2022

- Alegaonkar, A. P., Baskey, H. B., & Alegaonkar, P. S. (2022). Microwave scattering parameters of ferro-nanocarbon composites for tracking range countermeasures. Materials Advances, 3(3), 1660–1672. https://doi.org/10.1039/d1ma00977j
- Alegaonkar, A. P., Tripathi, K. C., Baskey, H. B., Pardeshi, S. K., & Alegaonkar, P. S. (2022). X-band Scattering Characteristics of Nickel/Nanocarbon Composites for Anti-tracking Application. ChemNanoMat, 8(2). https://doi.org/10.1002/cnma.202100301
- Ansari, A., Siddiqui, V. U., Rehman, W. U., Akram, M. K., Siddiqi, W. A., Alosaimi, A. M., Hussein, M. A., & Rafatullah, M. (2022). Green Synthesis of TiO2 Nanoparticles Using Acorus calamus Leaf Extract and Evaluating its Photocatalytic and In Vitro Antimicrobial Activity. Catalysts, 12(2). https://doi.org/10.3390/catal12020181
- Asapur, P. C., Sahare, P. D., Mahapatra, S. K., & Banerjee, I. (2022). Homology modeling and molecular docking study of biogenic Muga silk nanoparticles as putative drug-binding system. Biotechnology and Applied Biochemistry, 69(1), 129–135. https://doi.org/10.1002/bab.2088
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- Bekri, Z., Erturk, V. S., & Kumar, P. (2022). On the existence and uniqueness of a nonlinear q -difference boundary value problem of fractional order. International Journal of Modeling, Simulation, and Scientific Computing, 13(1). https://doi.org/10.1142/S1793962322500118
- Bhardwaj, R. K. (2022). Availability and preferences for information services to visually impaired tertiary students in Delhi. Journal of Enabling Technologies, 16(1), 1–16. https://doi.org/10.1108/JET-04-2021-0021
- Devi, A., & Kumar, A. (2022). Hyers–Ulam stability and existence of solution for hybrid fractional differential equation with p-Laplacian operator. Chaos, Solitons and Fractals, 156. https://doi.org/10.1016/j.chaos.2022.111859
- Devi, K. S., & Singh, K. K. (2022). Assessment of irrigational indices in surface water and shallow groundwater in the alluvial plain of Barak Valley, Assam, Northeast India. Geological Journal, 57(2), 818–831. https://doi.org/10.1002/gj.4198
- Fan, M., Su, D., Bhatt, M. W., & Mangal, A. (2022). Study on non-linear planning model of green building energy consumption under multi-objective optimization. International Journal of System Assurance Engineering and Management, 13, 437–443. https://doi.org/10.1007/s13198-021-01459-3
- Guo, Q., Liu, H., Hassan, F. M., Bhatt, M. W., & Buttar, A. M. (2022). Application of UAV tilt photogrammetry in 3D modeling of ancient buildings. International Journal of System Assurance Engineering and Management, 13, 424–436. https://doi.org/10.1007/s13198-021-01458-4
- Iqbal, M., Saykar, N. G., Alegaonkar, P. S., & Mahapatra, S. K. (2022). Synergistically modified WS2@PANI binary nanocomposite-based all-solid-state symmetric supercapacitor with high energy density. New Journal of Chemistry, 46(15), 7043–7054. https://doi.org/10.1039/d2nj00165a
- Jaiswal, G., & Kumar, P. (2022). Neuroprotective role of apocynin against pentylenetetrazole kindling epilepsy and associated comorbidities in mice by suppression of ROS/RNS. Behavioural Brain Research, 419. https://doi.org/10.1016/j.bbr.2021.113699
- Jakhar, M., & Kumar, A. (2022). Two-dimensional β -PdX2 (X = S, Te) monolayers for efficient solar energy conversion applications. Journal of Materials Chemistry A, 10(12), 6785–6795. https://doi.org/10.1039/d1ta10925a





- Jakhar, M., Kumar, A., Ahluwalia, P. K., Tankeshwar, K., & Pandey, R. (2022). Engineering 2D Materials for Photocatalytic Water-Splitting from a Theoretical Perspective. Materials, 15(6). https://doi.org/10.3390/ma15062221
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हिंदी अनुभाग

29 मार्च, 2022: पंजाब केन्द्रीय विश्वविद्यालय में "राजभाषा नियम और दैनंदिन कार्यों में प्रौद्योगिकी का अनुप्रयोग' विषयक राजभाषा कार्यशाला का आयोजन

पंजाब केन्द्रीय विश्वविद्यालय में राजभाषा कार्यान्वयन समिति के तत्वावधान में "राजभाषा नियम और दैनंदिन कार्यों में प्रौद्योगिकी का अनुप्रयोग' विषयक एक राजभाषा कार्यशाला आयोजित की गई जिसमें विश्वविद्यालय के विभागाध्यक्षों, अनुभागाध्यक्षों, शिक्षकों, कर्मचारीगण, शोधार्थियों और छात्रों ने भाग लिया। विश्वविद्यालय के कुलपति प्रो. राघवेन्द्र प्रसाद तिवारी के संरक्षण में आयोजित इस कार्यशाला में विश्वविद्यालय के हिन्दी विभाग के शिक्षकों और हिंदी अधिकारी द्वारा कार्यशाला विषय पर प्रशिक्षण प्रदान किया गया।



कार्यक्रम के दौरान विशिष्ट अतिथि प्रतिभागियों के साथ अपने विचार साझा करते हुए

कार्यशाला के प्रारम्भ में हिंदी विभागाध्यक्ष डॉ. राजेंद्र कुमार सेन ने अनुवाद के प्रयोजन, गुणवत्तापूर्ण अनुवाद कार्य के महत्व और अनुवाद क्षेत्र में कृत्रिम बुद्धिमता तथा प्रौद्योगिकी के प्रभाव पर प्रकाश डाला। उन्होंने रेखांकित किया की एक अच्छे अनुवादक में स्रोत भाषा तथा लक्ष्य भाषा में प्रवीणता होने के साथ-साथ अनुवाद की संस्कृति को समझते हुए संदेश की भावनाओं को दूसरी भाषा में व्यक्त करने की क्षमता होनी चाहिए। उन्होंने कार्यालय में राजभाषा हिंदी उपयोग से संबंधित भारत सरकार के राजभाषा विभाग से प्राप्त दिशानिर्देशों को साझा किया और सभी प्रशासनिक अधिकारियों तथा कर्मचारियों से हिंदी भाषा में पत्राचार सुनिश्चित करने का आग्रह किया।

वहीं डॉ. सूरज कुमार ने मातृभाषा, संपर्क भाषा, राज भाषा और राष्ट्र भाषा के अंतर पर विस्तारपूर्वक चर्चा करते हुए हिंदी की विभिन्न उपभाषाओं का वर्णन किया और राष्ट्र हिंदी दिवस तथा विश्व हिंदी दिवस के इतिहास को साझा किया। उन्होंने अनुवादकों को सुझाव दिया कि वह विषय को समझकर, अनुवाद के उपकरणों का इष्टतम उपयोग करके और स्रोत भाषा के साथ-साथ लक्ष्य भाषा के नियमों का पालन करके सामग्री का अनुवाद करें। तदुपरांत डॉ. अमित कुमार सिंह कुशवाहा ने अनुवाद के विभिन्न क्षेत्रों पर प्रकाश डालते हुए प्रतिभागियों से यूनिकोड से संबंधित जानकारीयाँ साझा की। कार्यशाला में प्रतिभागियों को गूगल इनपुट टूल्स, ऑनलाइन इमेज-टू-टेक्स्ट कनवर्टर टूल तथा वौइस् बेस्ड टाइपिंग के बारे में प्रशिक्षण प्रदान किया गया।

अंत में हिंदी अधिकारी श्री रूपेन्द्र शर्मा ने छात्रों तथा शोधार्थियों को बताया कि अनुवाद के क्षेत्र में कैरियर के अपार अवसर उपलब्ध हैं और युवा उच्च शिक्षा के दौरान एक से अधिक भाषाओं में निपुणता प्राप्त कर इस क्षेत्र में भविष्य उज्ज्वल कर सकते हैं।



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