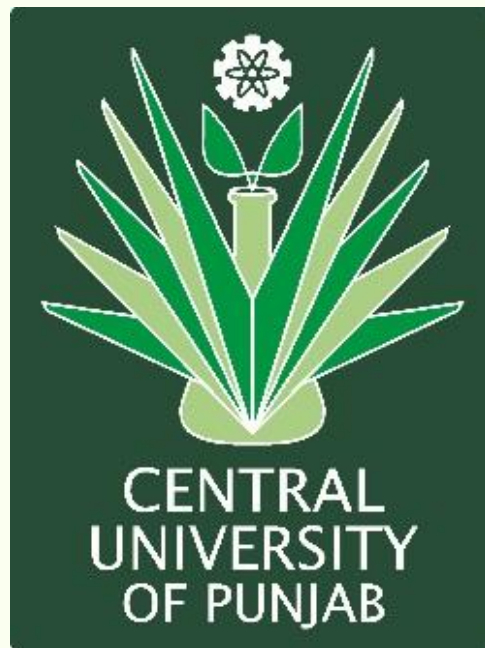


CUPB Newsletter
Vol. 5 (No. 3) July 1, 2017 - November 30, 2017



ਪੰਜਾਬ ਖੇਂਦਰੀ ਯੂਨੀਵਰਸਿਟੀ, ਬਠਿੰਡਾ
ਪੰਜਾਬ ਕੇਂਦਰੀਯ ਵਿਸ਼ਵਵਿਦਯਾਲਯ, ਬਠਿੰਡਾ
Central University of Punjab, Bathinda

Editorial

The academic excellence and reputation of any institution depends on the quality of education and training imparted to its students. Convocation is a ceremony that marks the successful completion of their degrees by the students and the progress of an academic institution. It is a culmination of the hard work and dedication students and faculties have put in to achieve their academic aspirations. In that way, a convocation ceremony is a special day in the academic life of students. Wearing the traditional academic insignia and walking up the stage in front of his teachers, friends and family members who have supported them in achieving this feast is the dream of every student. It is a defining moment in the life of every student that gives his/her self-esteem a boost. There is a need to conduct convocation ceremony every year in all the Universities in India as it prevents delay in issuing degrees to students.

For the last three years, convocation has been a recurrent event in the Central University of Punjab, Bathinda. CUPB organized its Third Convocation on September 12, 2017 at its City Campus. The ceremony started with the entry of academic procession led by Prof. Jagdeep Singh, Registrar, CUPB. A total of 337 students were awarded with the degrees in the Convocation in the august presence of Chancellor Prof. S.S. Johl, Padam Vibhushan and renowned agricultural economist and other august members of Executive Council and Academic Council of the University. The Honourable Vice-Chancellor Prof. R.K. Kohli introduced the University and the benchmark established by CUPB on the map of academic world and appreciating the performance of the students in Science Olympiad, and the National Youth Parliament.

While conveying his message and best wishes to the graduates being conferred upon the degrees, the Chancellor Prof. S.S. Johl said that graduates are an asset of the nation and society at large, rather, more so of the humanity. The parents, teachers and Alma mater and the society at large expect from the graduates their ethical conduct, broad-mindedness, concern for the society and nation as well as commitment to serve above self and contribute their share to socio-economic development of the society with honesty and integrity. Their conduct in life and every action in life, positive or negative, will reflect upon their parents, teachers and their Alma mater. Prof. S.S. Johl reminded the degree recipients that CUPB has tried to mould the students into productive, secular minded, responsible as well as disciplined India citizens with universal attitude, in addition to imparting very effectively the subject specific knowledge to the students. This is indeed the right direction in the academic world— balancing knowledge, ethics and social responsibility— that every academic institution in India envisages achieving.

Events Organised/Seminars/Workshops/Conferences Conducted

Biodiversity Awareness Campaign

Central University of Punjab, Bathinda in collaboration with Punjab Biodiversity Board initiated a Biodiversity Awareness campaign to motivate the students to take positive actions for conservation and sustainable utilization of biodiversity. On August 12, 2017, the students of CUPB were given free passes to visit Bir Talab Zoo. Biodiversity is essential for sustainable development and human well-being; in order to inculcate this among the students, saplings of edible fruits were donated by Punjab Biodiversity Board and were planted by NSS volunteers in CUPB main campus at village Guddha on August 19, 2017.



CUPB students during their visit to Bir Talab

National Youth Parliament Competition Held at CUPB

The Central University of Punjab, Bathinda, organised a National Youth Parliament Competition, under the aegis of the Union Ministry of Parliamentary Affairs, on its campus, on September 9, 2017. A total of 55 students participated in the competition, as ministers, members of the ruling party and the opposition in the auditorium that was filled to the capacity with representatives of NGOs, media persons, members of the civil society, students, faculty and the staff of the university. Former Member

of Parliament Mr. Avinash Rai Khanna, Ms. Amita Malik and Mr. Mandeep Singh were nominated by the Union Ministry of Parliamentary Affairs as jury in the competition. Mr. Khanna gave valuable suggestions to the participants about the nuances of practices and



NYP participants posing together for a photograph with the Chief Guests and the Honourable Vice-Chancellor

procedures followed in the Parliament, and encouraged them to focus on the issues prevalent in society, while declaring the results of the competition.

Ms. Amita Malik, Associate Professor, Deenbandhu Chhotu Ram University of Science and Technology, gave her valuable inputs on the procedure followed in the Parliament. She also announced the names of six students— Varinder Singh, Satish Singh, Jaya Somvanshi, Malika Phool, Apoorva Mishra and Aparajitaa— who won the competition and would take part further in the next level of the competition. Honourable Vice-Chancellor of the University, Prof. R.K. Kohli, said that it is a good practice to choose recent topics and development issues of social importance. He also added that these students are fortunate to learn about the functioning of the parliament and it is a good example of creating discipline.

Swachhata Pakhwada Organised at CUPB

Various activities were conducted to celebrate Swachhta Pakhwada in the university from September 1 – 15, 2017. The event started with a cleaning drive: cleaning the campus, cleaning the mess and cleaning the hostel from September 1 - 4, 2017. Essay writing competition on the topic “Innovative ways for spreading the message of hygiene” was organised on September 5, 2017. Students and university staff from various departments got registered themselves for the competition and 23 participants took part in the essay writing competition. The essays were reviewed and judged by Dr. Rajinder Kumar Sen, Dr. Ramanpreet Kaur and Dr. Alpna Saini. Elocution competition on the topic “Health and Hygiene is the real wealth” was organised on 14 September 2017. The final results of all the competitions were declared on the closing ceremony of the Swachhta Pakhwada on September 15, 2017. The first, second and third prize winners of essay writing competition were Archana Neog, Department of Biochemistry and Microbial Sciences, Pankaj Vashisht, Department of Education and Navjotpreet Kaur, Department of Geography and Geology respectively.



Honourable Chancellor & Vice-Chancellor awarding degrees to the students

3rd Convocation Held at CUPB

CUPB organised its 3rd Convocation at its City Campus on September 12, 2017 in which 337 students received their degrees. On the occasion, Honourable Chancellor, Padam Bhushan Awardee Dr.

Sardara Singh Johl gave away the degrees to the pass outs and asked them to work hard and honestly in order to secure a bright future. He also highlighted the progress made by the university as well as the progress of the construction of the main campus at village Ghudda. He also stated that students are the future of the nation as well as asset of it. The Vice-Chancellor Prof. R.K. Kohli presented the annual report of the university. As part of this event, an oath-taking ceremony was performed in which the degree holders took an oath to devote themselves to their work.

Celebration of Hindi Pakhwada

Central University of Punjab organised Hindi Pakhwada, under the aegis of the Official Language Implementation Committee, from September 14, 2017 to September 28, 2017. The event was formally inaugurated by delving on the importance of Hindi language in India and across the world. Dr. Rajinder Kumar from Department of Languages and Comparative Literature organised various activities like Poetry Recitation Competition, Translation Competition, Essay Writing Completion, Singing Competition, Quiz Competition, Poetry and Story Writing Competition. Hindi as well as non-Hindi speakers were encouraged to take part in the various activities of the event. On September 28, 2017, the closing ceremony of Hindi Pakhwada was organised. Honourable Vice-Chancellor Prof. R.K. Kohli presided over the function. Mrs. Shweta Arora, Deputy Registrar presented the formal welcome. The coordinator of the programme, Dr. Rajinder Kumar briefly briefed about the various activities organized as part of the programme, and mentioned that a total of 121 participants took part in the programme. After that, students of the university presented the song *Sare Jahan Se Acha*. Prizes were given away to the participants of various activities.



Students performing in Group Song Competition

In his address, Prof. Jagdeep Sigh, Registrar of CUPB, said that we should take initiative to make Hindi language simple so that maximum people can use it in day-to-day life. He wished a bright future for Hindi language. In presidential remarks, Prof. R.K. Kohli, Honourable Vice-Chancellor, congratulated the participants and the winners who participated in various events. He also shared his views about the status of Hindi language on the national and international level. He also wished a bright future for Hindi language and motivated the students.



A view of camp inside the university auditorium

World Heart Day Celebrated at Central University of Punjab, Bathinda

Cardiovascular diseases (CVD) including heart disease and stroke are the leading causes of mortality worldwide claiming 17.5 million lives each year. The CVD related complications and deaths can be

prevented by educating people about the causes and risk factors such as alcohol consumption, tobacco use, unhealthy diet and physical inactivity. Maintaining healthy weight, and managing other risk factors such as lipid profile, blood pressure, and diabetes can reduce the risk of CVDs. In order to create awareness about the vital organ function among the students and staff of the University, NSS, Community Development Cell and Vardaan Club of CUPB under the supervision of Dr. Monisha Dhiman organized a health camp to mark World Heart Day on September 29, 2017. The camp registered 250 volunteers for various tests such as measuring blood pressure, blood sugar and other vitals. The main highlight of the camp was the Fecal Immunochemical Test (FIT) where the stool test for individuals more than 55 years of age for polyps (abnormal tissue), diverticulitis, colitis, Crohn's disease, inflammatory bowel disease (IBD), and *Irritable bowel syndrome* (IBS) was tested. The Honourable Vice-Chancellor, Prof. R. K. Kohli said that camps like this can serve the purpose of empowering the students and staff with information and awareness with regard to their health and related issues and more such camps will be organized in near future.

Seventh Book Exhibition Inaugurated at Central University of Punjab, Bathinda

A two-day book exhibition was organised on October 30-31, 2017 in the university. The Honorable Vice-Chancellor, Prof. R. K. Kohli inaugurated the event. Thirty seven book vendors and leading publishers like Oxford, Pearson, Sage and TERI displayed more than fifty thousand books and their latest publications in several disciplines like humanities, social sciences, engineering, medicine, chemical sciences, pharmaceutical sciences, biological sciences and comparative literature.



Students exploring the books in the exhibition

Students of CUPB took keen interest in the book exhibition and selected books for the university library in varied disciplines. Several visitors from the city and neighbouring areas, including faculty members of local institutions also participated in the book exhibition. Visitors, students and faculty were excited to find such a wide variety of books in different languages at one place. For many of them, this was a scintillating and inspiring experience.

Vigilance Awareness Week

Central University of Punjab, Bathinda observed Vigilance Awareness Week from October 30, 2017 to November 4, 2017 on the theme "My Vision-Corruption Free India". The Vigilance Awareness Week 2017 was inaugurated by Hon'ble S.S.P. Vigilance followed by a Integrity Pledge taken by all employees-teaching faculty and non-teaching staff. On November 1, 2017, a cycle rally and a walk-for-a-cause were organised in which the students, faculty and non-teaching staff of the university participated with great enthusiasm. Prof. V. K. Garg, Dean Students' Welfare, flagged off the rally. The walkers walked from Mini-Secretariat via Mehna Chowk, Hanuman Chowk



Bikers cycling criss-cross in the City

and Mall Road to the Railway Station. While walking through the markets, streets and the roads, the participants were holding placards about anti-corruption, and interacted with local public spreading the messages of the corruption free India. A Panel discussion on the theme 'My Vision Corruption free India' was organized on November 3, 2017 in which six faculties from different departments participated. The discussion offered an opportunity for the audience to listen to the different dimensions of the issue, to interact with the panelists and to share their personal views. The Department of Education and NSS Cell organized an interaction session on Vigilance Awareness in Govt. Secondary School of Katar Singhwala village on November 2, 2017. The closing ceremony of Vigilance Awareness Week events was held on November 9, 2017. The Vice-Chancellor, Registrar and other senior officials and faculty members graced the occasion with their benign presence.

National Law Day Observance in CUPB

Under the aegis of Mr. Paramjeet Singh, District and Session Judge-cum-Chairman, District Legal Services Authority, Bathinda, the National Law Day was celebrated at CUPB on November 26, 2018. Honourable Vice-Chancellor, Prof. R.K. Kohli and faculty members were present on the occasion. Professor Dr. Veer Singh, former Vice-Chancellor of National Law University, Hyderabad, delivered a special lecture on 'law as an instrument of social change.' He asked all to fight against corruption and poor work culture in India. He reminded all of the fundamental duties, particularly that all should strive for excellence in their respective fields so that the country could develop. He stressed on the need to revamp the justice delivery system.



A panoramic view of the gathering of stalwarts to observe the National Law Day

Eulogizing of Dr. Harivansh Rai Bachchan's on the occasion of 110th birthday

The 110th birthday of the poet and writer Harivansh Rai Bachchan was celebrated in the Central University of Punjab on November 27, 2017. The programme was organised by the Department of Languages and Comparative Literature. Forty participants from different colleges such as Rajindra College Bathinda, DAV College Bathinda, Malwa College Bathinda, SSD Girls College Bathinda, Govt Barjindra College Faridkot, Mata Sundri University College Mansa, Indira Gandhi Memorial College Pilibanga participated in the programme. Dr. Suman Bawa,



Honourable Vice-Chancellor R.K. Kohli, Deputy Registrar Shweta Arora and Dr. Alpna Saini posing with the prize winners

Assistant Professor in Hindi from SSD Girls College, Bathinda shed light on the life and contribution of Harivansh Rai Bachchan in literature. A documentary based on the life of the latter was also shown. A declamation competition was organised on the topic "Need of the Study of Hindi Language and

Literature” followed by a quiz competition. In the speech competition, Aarti Chimpa from Indira Gandhi Memorial College Pilibanga won the first prize, Shreya from SSD Girls College, Bathinda won the second and Mohd. Iqbal from DAV College Bathinda bagged the third prize. In the quiz competition, Indira Gandhi Memorial College, Pilibanga got the first prize, Govt. Rajindra College Bathinda got the second, and Mata Sundri University College, Mansa got the third prize. Honourable Vice-Chancellor, Prof. R.K. Kohli distributed the prizes and certificates to the winners. In his address he said that languages are the real treasure of any society or nation. He said the Hindi language is establishing its identity all over the world and the students of Hindi have a bright future. He said that in the field of Hindi, there are a number of possibilities of employment.

Lectures/Invited Talks/Presentations



Prof. Pankaj K. Singh during the lecture

1. Department of Languages and Comparative Literature organised a lecture on “Cultural Studies” by Prof. Pankaj K. Singh, Department of English, Himachal Pradesh University, Shimla on July 27, 2017

2. Department of Biochemistry and Microbial Sciences organised a program on "One-Day Flow Cytometry Technical Education and Evaluation Program" on August 22, 2017.

3. Department of Pharmaceutical Sciences and Natural Products organised a lecture series on “Use of Nanobiocatalysts as for the Synthesis Of Chiral Drugs and Drug Intermediates and Process Development for the Production Of Rifamycin Oxidase and Subsequent Hydrolysis of Rifamycin B to Rifamycin S by *Curvularia lunata*” by Professor U. C. Banerjee, Head, Department of Pharmaceutical Biotechnology, NIPER, Mohali, on September 4, 2017.



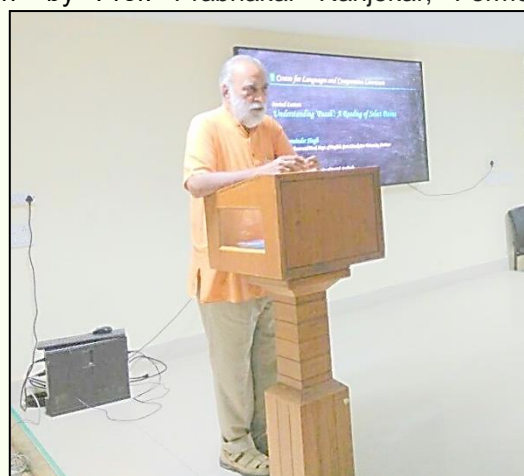
Prof. Ranjekar during his presentation

4. Department of Environmental Science and Technology organised an Invited talk on “Right to Information” by Sh. PPS Gill, Former State Information Commissioner, Punjab on September 4, 2017.

5. Department of Biochemistry and Microbial Sciences organised a guest lecture on “Nutrigenomics: The Science of Individualised Nutrition” by Prof. Prabhakar Ranjekar, Former

Director, Grade Scientist and Head, Division of Biochemical Sciences, National Chemical Laboratory, Pune and fellow of the National Academy of Sciences and National Academy of Agricultural Sciences, on September 15, 2017.

6. Department of Biochemistry and Microbial Sciences organised an invited talk on “Identification of Virulence Factors and Vaccine Development for Leishmaniasis” by Prof. Greg Matlashewski, Department of Microbiology and Immunology, McGill University, Montreal, Canada on September 20, 2017.



Prof. Parminder Singh during the lecture

7. The Student Counselling Cell of CUPB organised a special workshop on Counselling Techniques by Prof. Vidhu Mohan on 19-20 September, 2017
8. Department of Mathematics and Statistics organised a lecture on "Categorical Constructions and Their Applications" by Professor Navpreet Singh Noorie, Head, Department of Mathematics, Punjabi University, Patiala on September 27, 2017.
9. Department of Languages and Comparative Literature organised a lecture by Prof. Parminder Singh, Department of English, Guru Nanak Dev University, Amritsar on September 28, 2017.
10. Department of Plant Sciences, in continuation of the "Chalk Talk Series," organised an invited talk on "Biotechnology and Stress Tolerance in Chickpea" by Prof. Kamal Dev Sharma, (Plant Pathologist), Department of Agri-Biotechnology, CSK, HP Agricultural University, Palampur on October 25, 2017.
11. Department of Sociology organised 3rd Invited lecture on "The Science and Social Sciences: Methodological Concerns" by Prof. (Retd.) Vinod K. Jairath, Department of Sociology, University of Hyderabad, Hyderabad on October 26, 2017.
12. Department of Geography organised a lecture on "Levels of Development and Gender Issues in Haryana: A Regional Analysis" by Prof. Rajeshwari, Chairperson, Department of Geography, Kurukshetra University, Haryana on October 30, 2017
13. Central University of Punjab organised a lecture on "Goods & Service Tax (GST)" by Maj. Jagjeet Singh, Excise and Taxation Commissioner, Hisar on November 13, 2017.
14. Department of Plant Sciences organised a presentation on "Portable Photosynthesis System (Infrared Gas Analyzer) Model LI-6800" by Dr. Richard Garcia, Sr. Application Scientist, LI-COR Inc. USA, Ph. D (Plant Physiology), University of Nebraska, on November 16, 2017.
15. Department of Chemical Sciences organised a guest lecture on "Economy and Eco-acceptability -Two Emerging Parameters for a Chemical Process" by Professor Brindaban C. Ranu FASc, FNA, J C Bose Fellow, Department of Organic Chemistry, Indian Association for the Cultivation of Science, Jadavpur, Kolkata, on November 17, 2017.
16. Department of Physical Sciences organized an Expert Lecture by Prof. R. K. Puri, Department of Physics, Panjab University, Chandigarh, on November 23, 2017.

Seminars/Workshops/Conferences

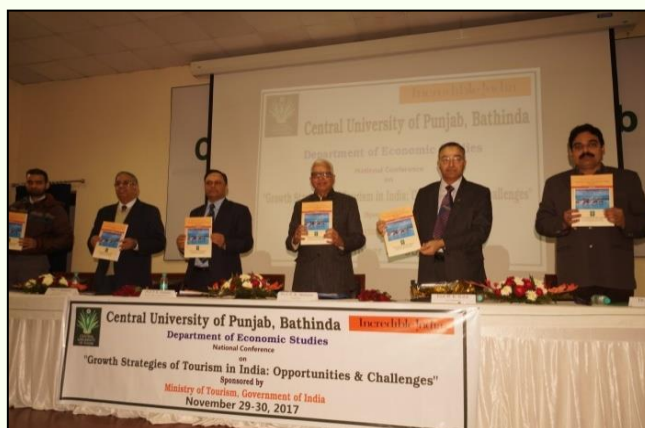
1. Department for Law and NSS Cell of CUPB in collaboration with National Institute of Social Defence, New Delhi, organised a seminar on "Socio-Legal and other Challenges for the Prevention of Drug Abuse in India: Existing Approaches and Agenda of Reform" on August 24-25, 2017.
2. Central University of Punjab, Bathinda organised a workshop on "Counselling Techniques by Prof. Vidhu Mohan" on September 19-20, 2017.
3. Department of Pharmaceutical Sciences and Natural Products organised a seminar on "Economy and Eco-acceptability - Two Emerging Parameters for a Chemical Process" by Professor Brindaban C. Ranu FASc, FNA, J C Bose Fellow, Department of Organic Chemistry, Indian Association for the Cultivation of Science, Jadavpur, Kolkata, on November 17, 2017.
4. Department of Economic Studies organised a Two-Day National Conference on "Growth Strategies of Tourism in India: Opportunities and Challenges" sponsored by Ministry of Tourism, Govt. of India on November 29-30, 2017



Prof. V.K. Garg, Prof. Nishtha Jaswal, Prof. of law, Punjab University Chandigarh, Prof. P. Ramarao, Shri Anand Katoch, Director NISD and Prof. Jagdeep Singh during the Inaugural Session

PUBLICATIONS (During the quarter)

1. **Dr. Abhishek Kumar Pandey** (2017), from Department of Languages and Comparative Literature published an interview entitled "Varishtha Shityakar Dr. Abdul Bismillah se Dr. Abhishek Kumar Pandey ki Baatcheet," *Uttarvarta* (Issue 13, May 2017, page no. 5-6. ISSN 2455-3859)



Honourable Vice-Chancellor and other stalwarts releasing the Souvenir

2. **Dr. Anil Kumar Mantha** and Bibekananda Sarkar from Department of Animal Sciences, and Monisha Dhiman from Department of Biochemistry and Microbial Sciences published a research paper titled "Curcumin revitalizes Amyloid beta (25-35)-induced and organophosphate pesticides pestered neurotoxicity in SH-SY5Y and IMR-32 cells via activation of APE1 and Nrf2" in *Metabolic Brain Disease* (Vol: 32; Issue: 6; 31 August 2017).
3. **Anil Kumar Mantha**, and Shweta Thakur from Department of Animal Sciences and **Monisha Dhiman** from Department of Biochemistry and Microbial Sciences published a research paper titled "APE1 modulates cellular responses to organophosphate pesticide-induced oxidative damage in non-small cell lung carcinoma A549 cells" in *Journal of Molecular and Cellular Biochemistry* (September 03, 2017).
4. **Dr. Anjana Munshi** from Department of Human Genetics and Molecular Medicine published a research paper titled "Apert's syndrome: study by whole exome sequencing" in *Journal of Genes and Diseases* (Vol: 63; Issue: 3-4; August 16, 2017).
5. **Dr. Anjana Munshi** from Department of Human Genetics and Molecular Medicine published a research paper titled "Role of TLR4 (C1196T) and CD14 (C-260T) Polymorphisms in Development of Ischemic Stroke, Its Subtypes and Hemorrhagic Stroke" in *Journal of Molecular Neuroscience* (Vol: 63, Issue: 3-4; September 30, 2017).
6. **Dr. Anjana Munshi** from Department of Human Genetics and Molecular Medicine published a research paper titled "Genetic signatures in ischemic stroke: Focus on aspirin resistance" in *Journal of CNS and Neurological Disorders - Drug Targets* (Vol: 16; October 2, 2017).
7. **Dr. Anjana Munshi** from Department of Human Genetics and Molecular Medicine published a research paper titled "Pyrimidine Containing Epidermal Growth Factor Receptor Kinase inhibitors: Synthesis and Biological Evaluation" in *Journal of Chemical Biology and Drug Design* (Vol.: 90; Issue: 5; November 7, 2017).
8. **Dr. Anjana Munshi** and Ramandeep Kaur from Department of Human Genetics and Molecular Medicine and Rubal and **Monisha Dhiman** from Department of Biochemistry and Microbial Sciences published a research article titled "Serum Albumin Levels in Breast Cancer: Correlation with Overall Survival" in *Journal of Food and Nutritional Disorders* (Vol.: 6 Issue: 5, November 2017).
9. **Dr. Ashok Kumar** from Department of Physical Sciences published a research paper titled "van der Waals Heterostructures based on Allotropes of Phosphorene and MoSe₂" in *Physical Chemistry Chemical Physics* (Vol: 19; July 26, 2017).
10. **Dr. Ashok Kumar** from Department of Physical Sciences published a research paper titled "Tunnelling Characteristics of Stone-Wales Defects in Monolayers of Sn and Group-V Elements" in *Journal of Physics: Condensed Matter* (Vol. 29; August 22, 2017).
11. **Dr. Ashok Kumar** from Department of Physical Sciences published a research paper titled "Alloyed Monolayers of Cu, Ag, Au and Pt in Hexagonal Phase: A Comprehensive First Principles Study" in *Journal of Materials Science and Engineering* (Vol. 228; November 09, 2017).

12. **Dr. Ashok Kumar** from Department of Physical Sciences published a research paper titled "Stability and Electronic Properties of Hybrid SnO Bilayers: SnO/Graphene and SnO/BN", in *Journal of Nanotechnology* (Vol. 28; November 30, 2017).
13. **Dr. Kamlesh Yadav**, Department of Physical Sciences published a paper "Effect of Ti⁴⁺ Doping on Magnetic Properties of Charge Ordered Bi_{0.3}Ca_{0.7}MnO₃", in *Materials Research Express* (Vol: 4; July 5, 2017).
14. **Dr. Kamlesh Yadav** and Ajay Kumar from the Department of Physical Sciences published a paper, "Optical Properties of Nanocrystallites Films of α -Fe₂O₃ and α -Fe_{2-x}Cr_xO₃ (0.0 \leq x \leq 0.9) Deposited on Glass Substrates", *Materials Research Express* (Vol: 4; July 5, 2017)
15. **Dr. Rajinder Kumar Sen** and Mukesh Ranjan from Department of Languages and Comparative Literature published a paper "Women as the "Fence" and the "Force": a Detailed Study of Rebati, in *International Journal of Literary Exploration* (Vol. 5; Issue: 4; November 2017)
16. **Dr. Rajinder Kumar Sen** from Department of Languages and Comparative Literature published a book (2017) *Hindi Ke Anchalik Upnyas*, Kalpna Publication, New Delhi, 2017.
17. **Dr. Ramanpreet Kaur** from Department of Languages and Comparative Literature, published a research paper titled "Gurbani Di Bhasha Ate Viyakaran Sambandhi Dr. Harkirat Singh Di Drishti", in the journal of *Khalsa College, Amritsar Samvad* (Vol:6; July-December 2017).
18. **Dr. Ramanpreet Kaur** from Department of Languages and Comparative Literature, published a research paper titled "Punjabi Bhasa Vigyanak Adhyan-Rujhaan Ate Paath Vigyanak Adhyan Vidhi", in the *Journal of Punjabi University*, Publication Bureau, Patiala Goshti (Vol.4, 2017).
19. **Prof. Ravinder Kumar Kohli**, Vice-Chancellor, Central University of Punjab published a research paper entitled "Alterations in photosynthetic pigments, protein, and carbohydrate metabolism in a wild plant *Coronopus didymus* L. (Brassicaceae) under lead stress" in *Acta Physiologiae Plantarum* (Vol.: 39; July 24, 2017).
20. **Prof. Ravinder Kumar Kohli**, Vice-Chancellor, Central University of Punjab published a research paper entitled "Phenological behaviour of *Parthenium hysterophorus* in response to climatic variations according to the extended BBCH scale" in *Journal of Annals of Applied Biology* (Vol.:171; Issue: 3; September 12, 2017).
21. **Prof. Ravinder Kumar Kohli**, Vice-Chancellor, Central University of Punjab published a research paper entitled "Phytoremediation of lead by a wild, non-edible Pb accumulator *Coronopus didymus* (L.) Brassicaceae" in *International Journal of Phytoremediation* (Oct 11, 2017).
22. **Dr. Puneet Pathak** and V. J. Jithin, from Department of Law published a research paper titled "Tribal Rights Looped in Governance of Protected Areas in India" in *International Journal of Legal Research and Studies* (Vol. 2; Issue 4; October - December 2017).
23. **Dr. Sandeep Kaur** from Department of Economic Studies published paper titled "Assessing Financial Integration of BRICS Equity Markets: An Empirical Analysis", *Emerging Economy Studies* (Vol. 3; Issue 2; November 15, 2017)
24. **Dr. Sandeep Kaur** and Krishan Singh from Department of Economic Studies published a paper titled "Whether FDI or Exports Enhance from Indian Manufacturing Firms, 2001-2012", *Revista Galega de Economia* (Vol. 26; 2017).
25. **Dr. Sandeep Kaur** and Gulshan Farooq Bhat from Department of Economic Studies published a paper titled "An Empirical Analysis of Growth Determinants in India and South Korea: Possible Lessons for India", *Applied Econometrics and International Development* (Vol: 17(2); 2017).
26. **Dr. Sandeep Kaur** and Harwinder from Department of Economic Studies published a paper titled "An Economic Analysis of Pesticide Use in India: A Case Study of Bathinda District", *International Journal of Ecological Economics and Statistics* (Vol. 38; Issue: 4; 2017).
27. **Dr. Sandeep Kaur** from Department of Economic Studies edited a book titled *Brexit and India: Analyzing the Implications*, 2017, New Delhi Publishers, 978-93-86453-27-3 (Edited).
28. **Dr. Shahila Zafar** from Department of Languages and Comparative Literature published a book chapter titled "An empirical study of the impact of project-based learning (PBL) approach

technical writing skills, Edited by Brian Tomlinson and Andy Keedwell, The British Council, India, New Delhi, (Issue:4; 2017). (ISBN 978-0-86355- 866-5).

Grant Received

- (1) **Dr. Pradeep Kumar** received UGC start up research grant entitled "Synthesis of pyridine based anti-Methicillin resistant *Staphylococcus aureus* agents," worth Rs. 10 Lakhs.
- (2) **Dr. Venkata Rao Kaki** from Department Pharmaceutical Sciences and Natural Products received UGC-BSR Start-Up-Grant amounting to Rs, 10, 00,000, funded by UGC, New Delhi for the project "Synthesis of Glucose Conjugates of Artemisinin and its Analogues - Exploiting Warburg Effect for Specific Targeting of Cancer Cells" for a duration of 2 years on December 2017.
- (3) **Dr. Sandeep Kaur** from Department of Economic Studies received Consultancy project "Agroforestry in the Western Zone of Punjab: The Way Forward for Diversification", Punjab Forest Department, worth Rs. 1 Lakh.

Papers Presented/Seminars/Workshops Attended by Faculty

1. **Dr. Biswajit Behera**, from Department of Education presented a paper on "Facet of Class Room Learning towards Framework of Sharing Leadership" in the International Conference on Excellence in Leadership: Towards Teacher Development in 21st Century, organised by All India Association for Educational Research (AIAER) and International Forum of Researchers in Education (IFORE), October 14 -15, 2017.
2. **Dr. Biswajit Behera**, from Department of Education presented a paper on "Constructivist pedagogy: An imperative towards Meta Cognitive Reflection (MCR) " in the National Seminar on Science Education, organised by Regional Institute of Education, NCERT, Ajmer, Rajasthan, November 21 -23, 2017.
3. **Dr. Biswajit Behera**, from Department of Education presented a paper on "Sustainable Tourism Pedagogy and its Orientation towards Research" in the National Conference on Growth strategies of tourism in India: opportunities and challenges, organised by Central university of Punjab, Bathinda, Punjab, November 29 -30, 2017.
4. **Dr. Biswajit Behera**, from Department of Education presented a paper on "Research on Enjoyment of Mathematics Learning- A Meta-analysis" in the National Seminar on Mathematics Education, organised by North-East Regional institute of Education, NCERT, Umiam, Meghalaya, December 21 -22, 2017.
5. **Dr. Chidanand Patil** from Department of Applied Agriculture (Agribusiness) presented a paper on "Growth and Performance of Indian Tourism Industry" in a National Conference on Growth Strategies of Tourism in India: Opportunities & Challenges, organised by the Department of Economic Studies, Central University of Punjab, Bathinda, November 29-30, 2017.
6. **Dr. Puneet Pathak** from Department of Law presented a Paper on "Critical Analysis of Right to Privacy as Fundamental Rights" in the National Conference on Law and Social Transformation, organised by University School of Law, Rayat-Bahra University, November 21, 2017.
7. **Dr. Puneet Pathak** from Department of Law presented a Paper "GST Impact on Centre State Fiscal Relation under Indian Constitution" in the National Conference on GST and other Financial Reforms Post Liberalization, organised by Asia Pacific Institute of Management, New Delhi, October 14, 2017.

8. **Dr. Puneet Pathak** from Department of Law presented a Paper “Right to Health and Environmental Protection in India” in the National Seminar on Human Rights and Duties Education, organised by Dept. of Law, Chaudhary Devi Lal University, Sirsa on September 27-28, 2017.
9. **Dr. Puneet Pathak** from Department of Law presented a Paper “Children’s Rights Violations during Armed Conflict” in National Seminar on Challenges to Human Security in 21st Century, organised by Army Institute of Law, Mohali on September 16, 2017.
10. **Dr. Puneet Pathak** from Department of Law presented a Paper “Drug Addiction in Punjab: Socio-legal Perspective” in NISD, New Delhi Sponsored-Regional Seminar on Socio-legal& other Challenges for the Prevention of Drug Abuse in India: Existing Approaches & Agenda of Reforms, organised by Central University of Punjab, Bathinda on August 24-25, 2017.
11. **Dr. Ramanpreet Kaur** from Department of Languages and Comparative Literature attended Summer School (as Refresher Course) at Human Resource Development Centre, Guru Nanak Dev University, Amritsar, From June 16, 2017 to July 06, 2017.
12. **Dr. Ramanpreet Kaur** from Department of Languages and Comparative Literature presented a paper on “Badlde Dour Vich Punjabi Bhasha ate Sabhyachar De Adhyan Te Adheyapan Di Sathiti: Vangaran te Sambhavnavan”, in a National Seminar on Punjabi Bhasha, Sahit ate Sabhyachar: Vangaran ate Sambhavnavan, organised by P.G. Dept of Punjabi, Guru Nanak College, Budhlada, August 12-13, 2017.
13. **Dr. Shahila Zafar** from the Department of Languages and Comparative Literature presented a paper on ‘Relationship between Sex Trafficking and the Use of Sex as a Marketing Strategy in Promoting Tourism’ at the National Conference on Growth Strategies of Tourism in India: Opportunities and Challenges, organised by Department of Economic Studies, Central University of Punjab, Bathinda, November 29-30, 2017.

Papers presented/Seminars/workshops attended by Students

1. Shishir Upadhyay attended workshop on “Advanced workshop on molecular docking, virtual screening and computational biology” organised by Department of Pharmaceutical Sciences and Natural Compounds on November 15-17, 2017 at Central University of Punjab, Bathinda.
2. Shishir Upadhyay from Department of Animal Sciences made a presentation on the topic “Cardiac Health Consequences Of Drug Abuse” in “Socio-Legal & Other Challenges for the Prevention of Drug Abuse In India: Existing Approaches & Agenda of Reform” workshop on August 24, 2017 organised at Central University of Punjab, Bathinda.
3. Navrattan Kaur from Department of Animal Sciences made a presentation on the topic “Drug Abuse And Mental Health” in “Socio-Legal & Other Challenges for the Prevention of Drug Abuse In India: Existing Approaches & Agenda of Reform” workshop on August 24, 2017 organised at Central University of Punjab, Bathinda.
4. Bibekananda Sarkar from Department of Animal Sciences made a presentation on the topic “Addiction And Alzheimer's Disease” in “Socio-Legal & Other Challenges for the Prevention of Drug Abuse In India: Existing Approaches & Agenda of Reform” workshop on August 24, 2017 organised at Central University of Punjab, Bathinda.

Information Regarding Students Qualified National Level Examinations (2017-18) **(UGC/CSIR/other- NET Examination/ SLET/ SET/ JPAT/GATE/ Civil Services or other)**

1. Department Biochemistry and Microbial Sciences

S. No.	Name of Student	Name of Examinations	Year of Qualification
1.	Parikshita Rathore	CSIR-UGC NET JRF	2018
2.	Naiyaz Ahmad	CSIR-UGC NET JRF	2018
3.	Randeep Singh	CSIR-UGC NET JRF	2017
4.	Malaya Ranjan	CSIR-UGC NET LS	2018
5.	Randeep Singh	ICMR-JRF	2017
6.	Parikshita Rathore	GATE	2018
7.	Naiyaz Ahmad	GATE	2018
8.	Randeep Singh	GATE	2018
9.	Malaya Ranjan	GATE	2018

2. Department of Geography and Geology

S. No.	Name of Student	Name of Examinations	Year of Qualification
1.	Salai	UGC- NET	2018
2.	Surjit Lalotra (Course Completed)	UGC- NET	2018

3. Department of Languages and Comparative Literature

S. No.	Name of Student	Name of Examinations	Year of Qualification
1.	Sapinder Singh	UGC -NET (English)	2018
2.	Suman Bhati (RA)	UGC- NET (Hindi)	2018
3.	Jaspreet Singh	UGC- NET (English)	2018
4.	Sandeep Kaur (Course Completed)	UGC- NET (English)	2018
5.	Rohini (Course Completed)	UGC- NET (English)	2018

4. Department of Sociology

S. No.	Name of Student	Name of Examinations	Year of Qualification
1.	Jagdeep Singh Mehna (2015-17 batch)	UGC- NET/JRF	2018
2.	Gugulothu Santhosh (2016-18 batch).	UGC- NET	2018

5. Department of Chemical Sciences

S. No.	Name of Student	Name of Examinations	Year of Qualification
1.	Rotash Kumar	CSIR- NET	2017
2.	Dependu	GATE	2017
3.	Deepti Ranjan Patial	CSIR- NET	2017

6. Department of Animal Sciences

S. No.	Name of Student	Name of Examinations	Year of Qualification
1.	Naga Chandra	NET	2017
2.	Vandana Singh	GATE	2017
3.	Supriti Sandhu	NET/JRF	2017
4.	Sukriti Mishra	NET	2017
5.	Shishir Upadhyay	ARS/NET	2017

7. Department of Human Genetics and Molecular Medicine

S. No.	Name of Student	Name of Examinations	Year of Qualification
1.	Akshay Vinayk	CSIR-JRF	2017
2.	Babita Sharma	NET	2017

8. Department of Computational Sciences

S. No.	Name of Student	Name of Examinations	Year of qualification
1.	Mukesh Kumar	CSIR- JRF	2017

9. Department of Plant Sciences

S. No.	Name of Student	Name of Examinations	Year of Qualification
1.	Digvijay Singh	ICMR- JRF	2017-18
2.	Pushpendu Kundu	CSIR- NET	2017-18

10. Pharmaceutical Sciences and Natural Products

S. No.	Name of Student	Name of Examinations	Year of Qualification
1.	Ram Sharma	GPAT	2017-18
2.	Sachin Sharma	GPAT	2017-18
3.	Saptarish Samajdar	GPAT	2017-18
4.	Sonakshi	GPAT	2017-18
5.	Nevedita	GPAT	2017-18
6.	Gandi Sony Pears	GPAT	2017-18
7.	Piyush Anand	GPAT	2017-18
8.	Akash Verma	GPAT	2017-18
9.	Sajal Biswas	GPAT	2017-18
10.	Sonali Jha	GPAT	2018-19

11. Department of Physical Sciences

S. No.	Name of Student	Name of Examinations	Year of Qualification
1.	Mukesh Jakhar	CSIR-JRF	2017
2.	Ram Swaroop	CSIR- LS	2017
3.	Kishori Lal	CSIR-LS & GATE	2017
4.	Akash Bansal	CSIR-LS & GATE	2017
5.	Souren Adhikary	GATE	2017

12. Department of Mathematics and Statistics

S. No.	Name of Student	Name of Examinations	Year of Qualification
1.	Jaskiran Kaur	CSIR-NET	2017-18

13. Department of Computer Science and Technology

S. No.	Name of Student	Name of Examinations	Year of Qualification
1.	Rajendra Singh Rawat	GATE	2017
2.	Akashdeep Kaur	GATE	2017
3.	Aroof Aimen	NET	2017

14. Department of Education

S. No.	Name of Student	Name of Examinations	Year of Qualification
1.	Deepika Katiyar	UGC-NET	2017-18
2.	Gurpreet Singh	UGC-NET	2017-18
3.	Deepika Banerjee	UGC-NET	2017-18
4.	Shilpa Sharma	UGC-NET	2017-18

15. Department of South Central Asian Studies

S. No.	Name of Student	Name of Examinations	Year of Qualification
1.	Muzaffar Arju	NET	2017-18
2.	Adarsh Kumar	NET	2017-18
3.	Manish Kumar	NET	2017-18

16. Department of Economic Studies

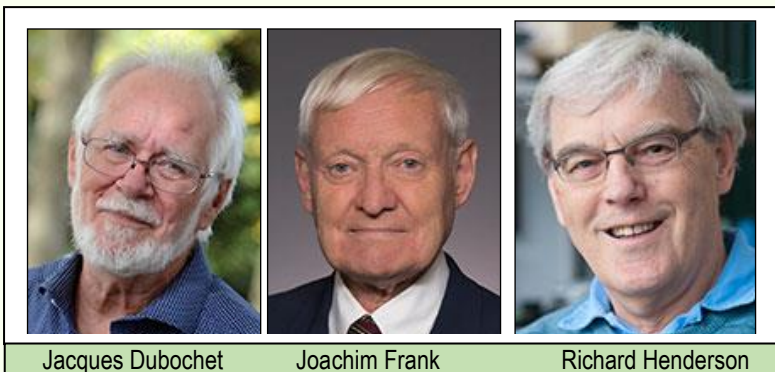
S. No.	Name of Student	Name of Examinations	Year of Qualification
1.	Bhat Gulshan	NET-JRF	2018
2.	Tialemba	NET	2018
3.	Shiba Pattayat	NET	2018
4.	Keshav Ubale	NET	2018
5.	Mohd Irshad	NET	2018
6.	Mandeep Bhardwaj	NET	2018
7.	Saroj Varma	NET	2018

17. Department of Environment Sciences & Technology

S. No.	Name of Student	Name of Examinations	Year of Qualification
1.	Gregory George	UGC- JRF	2017

Noble Laureates

The Nobel Prize in Chemistry 2017



The Nobel Prize in Chemistry 2017 was awarded jointly to **Jacques Dubochet** (Born in 1942, Aigle, Switzerland), University of Lausanne, Switzerland, **Joachim Frank** (born 1940 in Siegen, Germany), Columbia University, New York, USA and **Richard Henderson** (born 1945 in Edinburgh,

Scotland), Cambridge University, Cambridge, UK. The award was

given to them for developing a “*cryo-electron microscopy for the high-resolution structure determination of biomolecules in solution*” which will simplify and improve the imaging of biomolecules.

Prof. Dubochet used water in electron microscopy which after evaporation in electron microscope's vacuum makes the biomolecules collapse. Later he used cooled water so rapidly that it solidified in its liquid form around a biological sample, allowing the biomolecules to retain their natural shape even in a vacuum hence maintaining the structure of biomolecules without fixing it. Prof. Frank developed an image processing method in which the electron microscope's fuzzy two dimensional images are analysed and merged to reveal a sharp three-dimensional structure. Prof. Henderson succeeded in using an electron microscope to generate a three-dimensional image of a protein at atomic resolution. This breakthrough in microscopy technology will help the researchers to freeze biomolecules mid-movement and visualise processes they have never previously seen, which is decisive for both the basic understanding of life's chemistry and for the development of pharmaceuticals.

The Nobel Prize in Economic Sciences

The Sveriges Riksbank Prize in Economic Sciences in Memory of Alfred Nobel 2017 was awarded to Richard H. Thaler, University of Chicago, IL, USA "for his contributions to behavioural economics. Prof. Thaler is born on 12 September 1945 in East Orange, NJ, USA. Prof. Thaler has incorporated psychologically realistic assumptions into analyses of economic decision-making. By exploring the consequences of limited rationality, social preferences, and lack of self-control, he has shown how these human traits systematically affect individual decisions as well as market outcomes. Source: <https://www.nobelprize.org>



Central University of Punjab, City Campus, Mansa Road, Bathinda-151001

University Websites: www.cup.ac.in, www.cup.edu.in

Contact Numbers: 0164-2864122, 0164-2864106, **E-mail:** registrar@cup.ac.in
Suggestions are welcome. Please send these to: cupnewsletter@gmail.com

Patron:

Prof. R. K. Kohli
 FNA, FASc, FNASc, FNAAS, J. C. Bose Fellow
 Vice-Chancellor

Editorial Board:

Dr. Alpna Saini
 Dr. Monisha Dhiman
 Dr. Dinesh Babu P.

Student Editors:

Sapanpreet Kaur
 Iqbal Gill
 Kailash Chand Saini

Graphic Designer:

Suchismita Mahato