

National Assessment and Accreditation Council (NAAC)

An Autonomous Institution of the University Grants Commission

P.O. Box No. 1075, Opp: NLSIU, Nagarbhavi, Bangalore – 560 072

Central University of Punjab Bathinda

To enhance rigour and objectivity to the assessment and accreditation process, the University is requested to upload and submit the following information to NAAC.

Sl. No.	A. Core Indicators	
1.	Percentage of courses where major syllabus restructuring was carried out during last 3 years	Nearly 100% In the year 2012-13, CUPB had only 12 academic programmes as against 71 at present. Thus most of the courses were designed only in the last three years. A major revision of all courses and programmes was carried out in 2014. (Annexure 1).
2.	Temporal plan in more than 50% of programmes (CBCS/Semester/Annual)	Semester, CBCS in 100% programmes CUPB follows semester system. UGC guidelines on Choice Based Credit System were accepted by the Academic Council of CUPB in the sixth meeting held on March 5, 2015 and subsequently approved by the Executive Council in its 14 th meeting held in 16.03.2015. Choice Based Credit System has been implemented from the academic session 2015-16 for 100% programmes.
3.	Percentage of teachers with Ph.D. qualification General Courses Professional courses (for ex. MD/DM for medicine and ME/MS for engineering)	100% teachers are Ph.D. 100% teachers are M. Tech./Ph.D. All faculty members are Ph.D. except three in the School of Engineering and Technology who are M. Tech. as required. All Assistant Professors are NET qualified. At present, both NET and Ph.D. are required qualifications for appointment as Assistant Professor at CUPB.

4.	Student computer ratio	1.9:1.0 The university has a modern computer centre with latest configuration workstations (Dell®) each featuring all recent processors. The computer centre has 511 computers, 10 high end work stations, blade server with capacity for 16 blades each having with 16 GB RAM (12 are functional), two lease lines of 40 Mbps and 1 Gbps 22 laptops and 22 different kinds of software.
5.	The number of departments with UGC/SAP/CAS/DST/FIST etc, in university	DST grants: 3 ICSSR grant : 3
6.	Number of Post-Doctoral Fellows/Research Associates working a) Locals b) outsiders	Local: 0 Outsider: 3
7.	Number of ongoing research projects/per teacher	1 per teacher (84 Projects and 84 teachers) CUPB has in operation 24 internally funded and 60 externally funded research projects with a total grant of Rs. 13.76 crores (Annexure 2).
8.	Number of completed research projects/per teacher (Funded by National/International Agencies)	$7/84 = 0.084$ Seven projects worth Rs. 0.85 crores have been completed recently
9.	Coordinated/Collaborative projects (National and International)	Seven national/ International collaborations (Annexure 3).
10.	National recognitions for faculty for Teaching/Research/Consultancy/Extension (Reputed/recognised bodies)	As many as 35 CUPB faculty members have received national recognitions (Annexure 4).
11.	Number of Patents (last 5 years)	One in progress
12.	Output of M.Phil. & Ph.D. per faculty	2.71/ Faculty 228 dissertations submitted as per details in Annexure 5.
13.	Revenue generated from consultancy per year	One consultancy of 1.15 lacs
14.	Number of MoUs with International recognized bodies	One with University of Saskatchewan, Saskatoon

15.	Publications per faculty	30.97/ Faculty member On various research parameters such as relative <i>h</i> -index, relative research papers citation and relative ranking RG score; CUPB has surpassed all the 13 central universities established in 2009 and is ranked at no 1 (Annexure 6).
	Total number of publications of the university	2602
	Percentage of papers published in journals listed in well-known databases	84.44% (2197 out of 2602 papers are in impact factor/indexed journals) The faculty of CUPB has to its credit 1374 papers in impact factor journals, 823 papers in indexed journals, 56 books, 44 edited books, 14 monographs and 291 book chapters. The faculty has 48 research papers in journals with impact factor between 8.0 to 31.5; 218 with impact factor of 4.0 to 8.0 and 489 with impact factor of 2.0 to 4.0. Cumulative citation index of the faculty is 25695 and average <i>h</i> -index is 5.77.
16.	Average impact factor of publications	2.947 (for impact factor publications)
17.	Number of papers with more than 10 citations	A total of 25695 citations for 2602 papers. Hence average of 9.87 citations for each paper.
18.	Number of book titles per student (in the central library) excluding book bank	27.7 books/ student (25070 books for 904 students)
19.	Percentage of annual allocation for library spent on purchase of journals (national & international) and other library resources (CDs, Cassettes, etc.)	64.77% and 56.22% of annual library budget was spent on purchase of journals for the years 2013-14 and 2014-15 (Annexure 7).
20.	Number of national/international conferences/ workshops organised per department per year and names of experts participated	Seven Workshops (Annexure 8).
21.	Student performance in national/international level examinations (eg: ET/SLET/GATE/GMAT /CAT, GRE/TOFEL, Civil Services	194 students cleared national level competitive examinations (Annexure 9).
22.	Student Teacher Ratio (average across all	10.76:1.00 904 students; 84 Faculty

	disciplines)	
23.	University has the following: i) IQAC ii) Accreditation by national body iii) International accreditation/ISO certification iv) AAA	-IQAC functional and Active -NCTE accreditation Notification No.: NRC/NCTE/NRCAPP-9698/238 th /104363 -AICTE approval dated 27.04.2013 and extension of approval dated 04.06.2014 and 07.04.2015
24.	Outstanding Achievements/Recognition by faculty/alumni both at national and international level	CUPB has Faculty with following distinctions: Fellow, Indian National Science Academy, Fellow of National Academy of Agricultural Sciences, Fellow, Indian Academy of Sciences, Fellow, National Academy of Sciences, DST-INSPIRE Faculty Award, DST Young Scientist award' "Young Scientist Award" by Punjab Academy of Sciences at Punjab Science Congress, Fellow, Punjab Academy of Sciences, J C Bose National Fellow, DS Kothari Post-Doctoral fellowship, Presidents Inspired Teacher's recognition, Ramalingaswamy Reentry fellows, Ramanujan fellow (Annexure 10).
B. Desirable Indicators		
25.	Outstanding performance of students in sports/cultural activities at national level	Two students Gaurav Joshi, Shweta Thakur participated in national level events
26.	Feedback received from different stakeholders on syllabi etc. (i) Students (ii) Alumni (iii) Parents (iv) Employers (v) peers	Feedbacks are received from students at the end of each semester for all the subjects. One unique feature of CUPB is that a number of faculty members have carried out web-based anonymous student feedback for self-improvement. Many Centres remain in touch with the relevant industries and incorporate their feedback (Annexure 11).
27.	Percentages of recommendations of the stakeholders implemented	Generally accepted (70-80%). All recommendations are considered in the Board of Studies.
28.	Number of interdisciplinary course combinations introduced during last five years as percentage of total programmes	Six out of 19 Centres offer interdisciplinary programmes. These are Biosciences, South and Central Asian Studies, Human Genetics and Molecular Medicine, Environmental Law, Computational Sciences, Centre for Pharmaceutical Sciences and Natural Products (Annexure 12).
29.	Percentage of Departments conducting tutorial classes	100%. CUPB follows L+T+P plan; Tutorials are a part of courses.
30.	Number of courses, where continuous assessment of student performances is structured into the system	100%. Continuous assessment is a part of the examination system

31.	Percentage of faculty availing international fellowship for advance studies	CUPB faculty has rich exposure and experience abroad. As many as 31 members of the faculty have abroad training. Out of these, 9 members have spent between 5 to 17 years at prestigious foreign universities (Annexure 13).
32.	Percentage of courses/programmes that formally integrate e-learning resources from National Programmed Teaching Enhanced Learning (NPTEL) Digital library retrieval	Nil
33.	Percentage of annual budget allocated for augmentation of infrastructure facilities (average of last 3 years)	Average 42.34% (33.59, 26.96 and 66.48% in the last three years)
34.	Total number of class rooms, seminar halls with LCD/OHP etc.	100% classrooms have projectors for power point presentations.
35.	Declaration of results within	Different results were declares within 4 to 9 days after checking, verification, tabulation etc. (Annexure 14).
36.	Average pass percentage of students	95.33% (Annexure 15)
37.	Student Placement percentage average per year	CUPB started with M.Phil-Ph.D. integrated programmes in 2009-10. Students are now graduating. However 29 students have been placed (Annexure 16).
38.	Percentage of student progression to higher education	95% M. Phil. students have progressed to Ph.D.
39.	Average drop-out percentage of students	25.05%
40.	Unit cost of Education (excluding salary)	5.48 lacs
41.	Aggregate percentage of seats filled against seats reserved for various categories as per applicable reservation policy	SC: 63%; ST: 41%; OBC: 60% average of seven years 2009 to 2015 (Annexure 17).
42.	Number of differently abled persons on roll: Teaching/Non Teaching/Students	Total two differentially abled persons are on the roll of the university.
43.	Percentage representation of staff (Teaching/Non Teaching) in decision making bodies	All decision making bodies have representation of Faculty and Non-Faculty.
44.	*Percentage of autonomous colleges to the total number of colleges	Not applicable. As per the Act, CUPB is a non affiliating university.

45.	Percentage of teachers from other states	62% (Annexure 18).
46.	Donations received for institution of Chairs, endowments, seminars, and lecture series in crores of INR in last 5 years	Nil
47.	Contribution of Alumni/parents (average of last 5 years) for development of university in lakhs	Nil
48.	Percentage of Female Students	48.42%
49.	Programme for professional development of staff per year	About 50% of the present faculty has undergone orientation programmes and refresher courses at various Academic Staff Colleges. Six faculty members attended refresher courses and another twenty five have attended orientation programmes, two attended special summer programmes and two attended special winter programmes at various places.
50.	Projection of successful innovative practices	On web-site, university magazines, annual reports etc.

* *Applicable only to the affiliating Universities.*

Place:

Signature

Date:

Vice Chancellor

Curriculum revision at CUPB

In the year 2012-13, CUPB had only 12 academic programmes as against 71 at present. Thus most of the courses were designed only in the last three years.

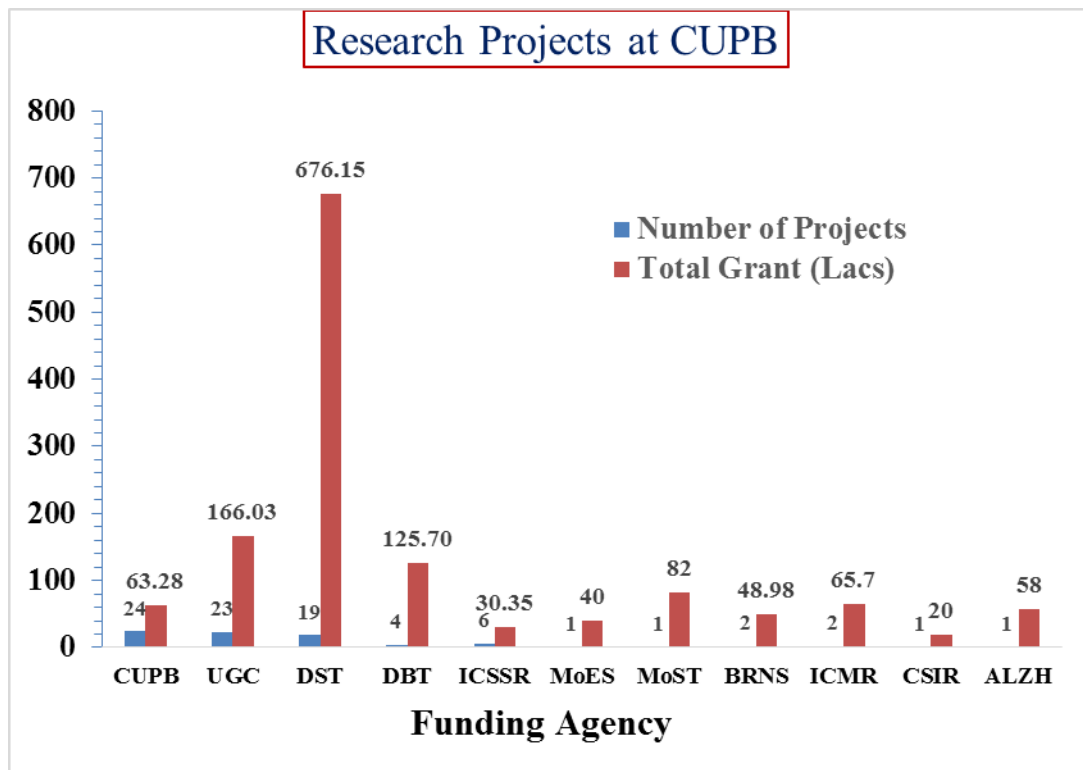
A major revision of all programmes was carried out during 2014 and implemented from session 2015-16. Another major revision is planned during October/November 2015. Currently each centre is geared up to call meetings of Curriculum Development Committees, Board of Studies and School Boards for up gradation of curriculum for session 2016-2017. Details of the curriculum review carried out by different centres given in the Table shows that most centres of CUPB revised their curriculum every year.

Curriculum review by different centres of CUPB

Name of the Centre	Name of the Programme	Syllabus (First approval)	1 st Revision/ Upgrade	2 nd Revision/ Upgrade	3 rd Revision/ Upgrade
Environmental Science and Technology	M.Phil.	Feb, 2010.	July, 2011	Feb, 2013.	November , 2014
	M.Sc.	Jul, 2011.	Aug 2012	Feb, 2013.	Nov., 2014
	Ph.D.	Coursework was approved in Aug 2012	November, 2014	-	-
Biosciences	M.Phil.-Ph.D. Integrated	2011	Aug. 16, 2011	July 17, 2012	-
	M.Sc. Biosciences	2011	July 17, 2012	Nov. 2014 (changed nomenclature)	-
	M.Sc. in Molecular Genetics	June 02, 2014	-	-	-
Comparative Literature	M.Phil.-Ph.D. Integrated	December 2009	July-Aug 2011	July-Aug 2011(Course Work)	-
	M.A. Comparative Literature	June 2012	November 2014(changed the nomenclature of programme)	-	-
South and Central Asian Studies	M.Phil.-Ph.D. Integrated	2009-10	November, 2014 (M.Phil. Standalone)	-	-

	M.A. International Studies	2009-10	June 5, 2012	November 2014 (changed the Nomenclature of programme)	-
Economics	M.Phil. Economics	June, 2011	November 2014	-	-
	M. A. Economics	2013	November 2014	-	-
Environmental Law	LL.M. - Ph.D. Integrated	April, 2011	-	-	-
	LL.M. in Environmental Law (one year)	March 2013	Dec.2014 (two year and add more specializations)	-	-
Physical and Mathematical Sciences	M.Sc. Physics (Nanophysics)	August, 2013	July, 2014	November, 2014 M.Sc. Physics (specialization in Nanophysics)	-
	M.Phil. Physics	August, 2013	July, 2014	November, 2014	-
Human Genetics	M.Sc. Human Genetics	Feb.2014	Nov. 2014	-	-
Genetic Diseases and Molecular Medicine	M.Sc. in Genetic Diseases and Molecular Medicine	Feb.2014	Nov. 2014	-	-
Bioinformatics	M.Sc. in Bioinformatics	Feb.2014	Nov. 2014	-	-
Computer Science and Technology	M. Tech. (Computer Science and Technology)	July, 2012	Nov. 2014	-	-
Education	M.Ed./M.A. Education	Feb14	Nov. 2014	-	-
Punjabi Language, Literature and Culture	M.A.(Hons) Punjabi and Comparative Literature	July, 2013	Nov.2014 (changed the nomenclature)	-	-

Research projects in operation at CUPB



Research Collaboration between CUPB and national/international organizations

S.No.	Faculty	Different Centres/ National/ International	Aspect of Collaboration
1.	Prof. R. K. Kohli (Vice Chancellor), Professor, Centre for EVST	Panjab University, Chandigarh	MoEF project
2.	Prof. R. K. Kohli (Vice Chancellor), Professor, Centre for EVST	Dr. Rakesh Monocha, USDA	Research project
3.	Dr. Anil Mantha Centre for Animal Sciences	Prof. Perez-Polo JR, University of Texas Medical Branch, Galveston, TX, USA	Research collaboration
4.	Dr. Felix Bast Centre for Plant Sciences	CDRI, Lucknow	MoES Project
5.	Dr. Raj Kumar, Centre for Pharmaceutical Sciences and Natural Products	Dr. U. C. Banerjee NIPER, Mohali	Research collaboration
6.	Dr. Vikas Jaitak Centre for Pharmaceutical Sciences and Natural Products	Dr. V. K. Kaul IHBT, Palampur	Research collaboration
		Dr. Saroj Arora GNDU, Amritsar	Research collaboration
		Dr. Iris Stappen University of Vienna, Austria	Research collaboration
		Dr. Nurhayat Tabanca University of Mississippi, University, USA	Research collaboration
		Dr. Leopold Jirovetz University of Vienna, Austria	Research collaboration
7.	Dr. Sandeep Singh Centre for Human Genetics and Molecular Medicine	Prof. Madhu Khullar, PGI, Chandigarh and Dr. Raj Kumar, CUPB	Research collaboration

National Recognitions for CUPB faculty in teaching and research

Prof. R. K. Kohli

- Haryana Vigyan Ratna Award, Government of Haryana 2008-09
- Chairman of the State Expert Appraisal Committee, Ministry of Environment 2009
- Awarded SAARC Chair Bangladesh, Chittagong University 2007-08
- Adjunct Professor, Chinese Academy of Sciences, China 2007-09
- Punjab Rattan Award for Environment Science and Education 2007-08
- Dr K.K. Nanda Memorial Oration Lecture Award, Dopolli Maharashtra 2007
- B.P. Pal National Environment Fellowship Award, Union Ministry of Environment & Forests (highest award) 2001
- Nanda Memorial National Young Scientist Gold Medal Award for Research in Forestry 1988
- Vijay Shree Award, New Delhi 2006
- National Visiting Associateship UGC India
- Gregor Mendel Medal awarded Brno, Czechoslovakia. 1979
- UNESCO-WHO Post-doctoral Fellowship Institute of Experimental Botany, Praha, Czechoslovakia 1978-79
- Second Best Research Paper Hindi Award by CSIR 1998

Prof. P. Ramarao

- Dr. I.C. Chopra Award, Regional Research Laboratory, Jammu 1995
- Dr. G. S. Sidhu Science Lecture, Indian Institute of Chemical Technology 2003
- AICOI's Punjab Ratan Award All India Conference of Intellectuals, Punjab 2005
- CDRI Oration Award 2005 Central Drug Research Institute, Lucknow 2005
- Mrs P.P.Suryakumari Prize (Gold Medal) Indian Pharmacological Society (IPS) 2005
- Rajbhasha Award Town official Language Implementation Committee (TOLIC) 2005
- ISCB Award for Excellence Indian Society of Chemists & Biologists 2008
- Pharma-Bio Award CHEMTECH Foundation, Mumbai 2009

Prof. A. K. Dhawan

- Noel Deerr Award, STAI, Delhi conferred by president A. P. J. Abdul Kalam, 2009
- Distinguished Scientist Award from Society for Promotion of Plant Science Research, Jaipur, 2009
- J. J Chinoy Award from Indian Society for Plant Physiology, New Delhi, 2008
- Y. S. Murti Memorial Lecture Award from Indian Botanical Society, New Delhi, 2007
- K. K. Nanda Memorial Lecture Award, Indian Society Plant Physiology, Delhi, 2006
- Elected as Vice-President, Indian Society for Plant Physiology, New Delhi, 2008

- Panelist and Lead Speaker, World Biotechnology Congress, Chicago, Illinois, USA, 2008
- Member, International Advisory Committee, International Foundation for Sustainable Development in Africa and Asia (IFSDDA), Germany, 2009
- Fellow, Sugar Technologists Association of India, New Delhi, 2003

Prof. R. C. Sharma

- Chairman, Monitoring team for DUS testing of Plant Protection of Varieties & Farmer's Rights Authority New Delhi (2013-14)
- Convener, Monitoring Team (North Zone) of National Seed Project (2004-2009)
- Member, Monitoring Team (NZ) of National Seed Project (1993-2003)
- Member of ICAR's (Indian council of Agriculture Research) Committee for developing the course structure, operational modalities and evaluation procedure etc. for the Experiential Learning Programme.

Prof. R. G. Saini

- National Fellow (ICAR) 1995
- VP Gokhle Prize in Plant Pathology ARI (DST), Pune 1994

Prof. A. K. Jain

- Visiting Professor, at University of California Davis, USA, under a UNDP/FAO sponsored project.
- UNDP/FAO fellow at Royal Institute of Technology, Stockholm, Sweden.
- SIDA/ICAR fellowship at Royal Institute of Technology, Sweden in 1995.

Prof. S. K. Bawa

- Professional Involvement Award, Psycho-Linguistic Association of India 1995
- Best Educationist Award, Indian Psychometric and Educational Research Association 2009
- Prof. V P Sharma Award for Contribution in Education, Psycho-Linguistic Association of India 2011
- Sudarshan Rakheja Memorial Award for Best Woman Educationist, Indian Psychometric and Educational Research Association 2014

Dr. Rakesh Kumar

- Dr. P.D. Sethi Annual Award 2012, for Best Research Paper.
- FWO Postdoctoral Research Fellowship, Belgium.

Dr. Krishan Kanta Haldar

- Best poster Award, "Resonance energy transfer between dye and QD's" Krishna Kanta Haldar and Amitava Patra, presented in the 20th Annual General Meeting of the Materials Research Society of India, 2009

Dr. Anil Kumar Mantha

- 2009 Young Investigator award from the Alzheimer's Drug Discovery Foundation (ADDF), USA.
- 1998-2000 NIMHANS Fellowship, National Institute of Mental Health and Neuro Sciences, Bangalore, India.

Dr. Jyoti Parkash

- 2008 Won Best Presentation Award in International symposium on "Molecular Aspects of Brain Aging and Neurological Disorders" in November 2008 held at Department of Biotechnology, Guru Nanak Dev University, Amritsar, India.

Dr. Krishna Chaitanya Rapalli

- 2014: SERB Young Scientist, DST, India
- 2012-13: DST-PURSE Postdoctoral Fellowship

Dr. Felix Bast

- "President's Inspired Teacher" by the President of India and spent one week with the President of India as Invited In-Residence Intern at RashtrapatiBhavan, New Delhi 6-12 June, 2015
- Young Faculty Award -2015 (in discipline Bioscience) by Venus International Foundation
- Member of editorial board of Journal of Phylogenetics and Evolutionary Biology and Journal of Cell Science & Molecular Biology
- National Science Foundation-USA Fellowship-2007
- Indian Academy of Sciences Summer Research Fellowship at NIO, Goa-2002
- JNCASR-Rajiv Gandhi Summer Research Fellowship at NCBS-TIFR, Bangalore- 2001

Dr. Sanjeev Kumar

- Promising Young Researcher Award 2010 (Turkey)

Dr. Pankaj Bhardwaj

- DST Young ScientistFast Track Award 2012.

Dr. Vinay Kumar

- AU-CBT Excellence Award (2011). Biotech Research Society of India (BRSI).

Dr. Anjana Munshi

- Member world stroke Bill of Rights

Dr. Sandeep Singh

- Won Best poster presentation award in "International Symposium on Intermediate Filament Proteins: Recent Trends in Keratin Biology" held on September 28-29, 2007 in ACTREC, Navi-Mumbai.

- Post Doctoral Fellow at City of Hope National Medical Centre, California, USA (March 2010-September 2011).
- Young Scientist Award by Punjab Academy of Sciences in February 2015.

Dr. Monisha Dhiman

- 2013- till date Editorial Board Member, J. of Cell Sci. and Mol. Bio

Dr. Sabyasachi Senapati

- Young Scientist Award by Association of Biotechnology & Pharmacy, Oct 2013, New Delhi, India

Dr. Neeraj Kumar

- Awarded Dr. D. S. Kothari Post-Doc Fellowship (DSKPDF), University Grant Commission (UGC), 2011, Government of India.

Dr. Aklank Jain

- Associate Editor, International Journal of Molecular Biology 2013 onwards
- Ramanujan Fellowship, DST, India June 2012- June 2017

Dr. Somesh Baranwal

- Selected for the prestigious Ramalingaswami Re-entry Fellowship of the Department of Biotechnology for the year 2013-2014.

Dr. Purshotam Sharma

- DST Inspire Faculty Award (Chemical Sciences), DST Government of India, April 2015.
- Christopher Bender Owen Award for best PDF Lecture at Chinook Symposium in Chemistry and Biochemistry, University of Lethbridge, September 26, 2014.
- DST-DFG Awards for Participation in the Meeting of Nobel Laureates and Students in Chemistry, June 2009.

Dr. Dhanya M.S.

- Won Best paper award in EnviroEnergy- an International Conference on Environment and Energy, 2009.
- Won Second Prize in Poster presentation in National Workshop on Emerging Horizons in Biofuel Research and Application (NWEHBRA), 2009.

Dr. Jai Parkash

- INSPIRE Faculty Award (DST/INSPIRE Faculty Award/2011) under INSPIRE Faculty Scheme of Department of Science and Technology (DST), New Delhi, India for carrying out independent research to young achievers for tenure of five years.
- Recipient of Young Scientist Award Under Science and Engineering Research Board Fast Track Scheme for young scientists in physical sciences by Department of Science and Technology (DST), New Delhi, India.

- The United States Air Force Office of Scientific Research (USAFOSR) Postdoctoral Scholarship at San Francisco State University, San Francisco, CA; 2010 – 2011.

Dr. Ashok Kumar

- Young Scientist Award by Punjab Academy of Sciences

Dr. Jitendra Kumar Pattanaik

- Awarded UGC – Dr. D. S. Kothari Post-doctoral fellowship, 2010.

Dr. Sachin Kumar

- UGC Dr.D.S Kothari Postdoctoral Fellowship

Dr. Rajinder Kumar

- Dr.B.R. Ambedkar National Award by Jyotiba Phule Talent and research Institute, 2010

Dr. Ramanpreet Kaur

- Roll of Honour by Guru Harkrishan Education Society, Chandigarh , 24 April, 2011

Dr. Nishtha Kaushiki

- Japan-ASEAN Integration Fund as a part of the Japan –East Asia Network of Exchange of Students and Youth (JENESYS) Programme.

Dr. Tarun Arora

- Scroll of Honour on Law Day 26 November 2008 by International Council of Jurist on the occasion of International Conference on Rule of Law, 25-26 Nov. 2008.
- Awarded by the Cabinet Minister Mr. Sikandar Singh Malooka, Government of Punjab for creating awareness on Environment Preservation on 15 Aug 2014.
- Honoured by Gulmohar Eco Club under National Environment Awareness Campaign, 2012.

Dr. Deepak Kumar

- Young Scientist Award 2011 by the Society for Environment and Development (India), PCRA, Ministry of Petroleum & Natural Gas, Government of India.

Students' projects completed

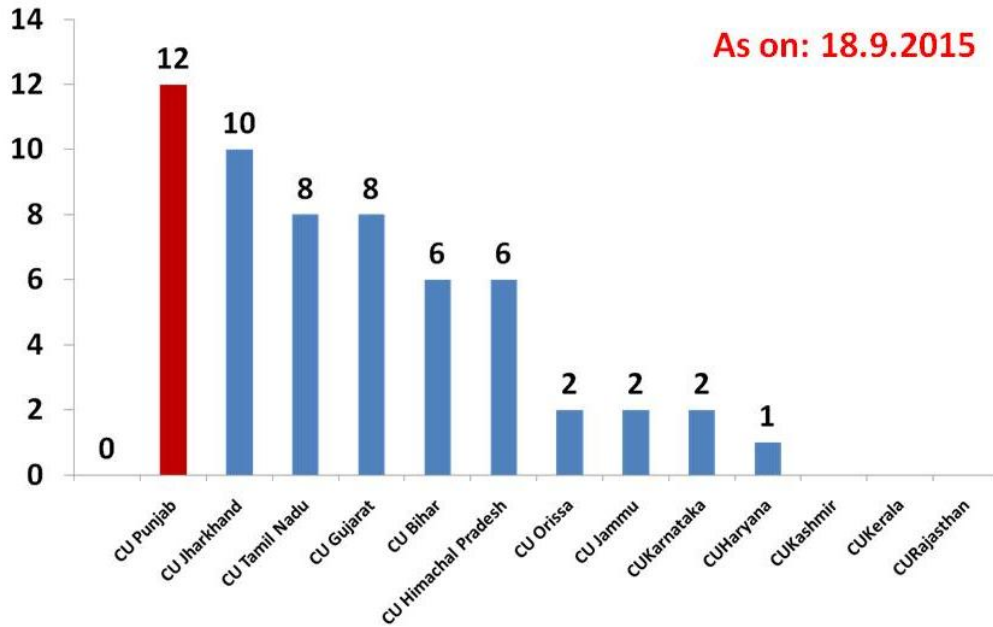
Academic Year	M.Phil.	M.Pharm.	LL.M.	M.Tech.	M.Sc.	Total
2011-12	26	NIL	NIL	NIL	NIL	26
2012-13	34	8	4	NIL	11	57
2013-14	50	8	9	17	13	97
2014-15	33	0	3	0	2	38
Total	153	16	16	17	26	228

NIL – the programme did not exist during the year.

Relative *h*-index of New Central Universities

Source: Elsevier Inc., USA

www.scopus.com

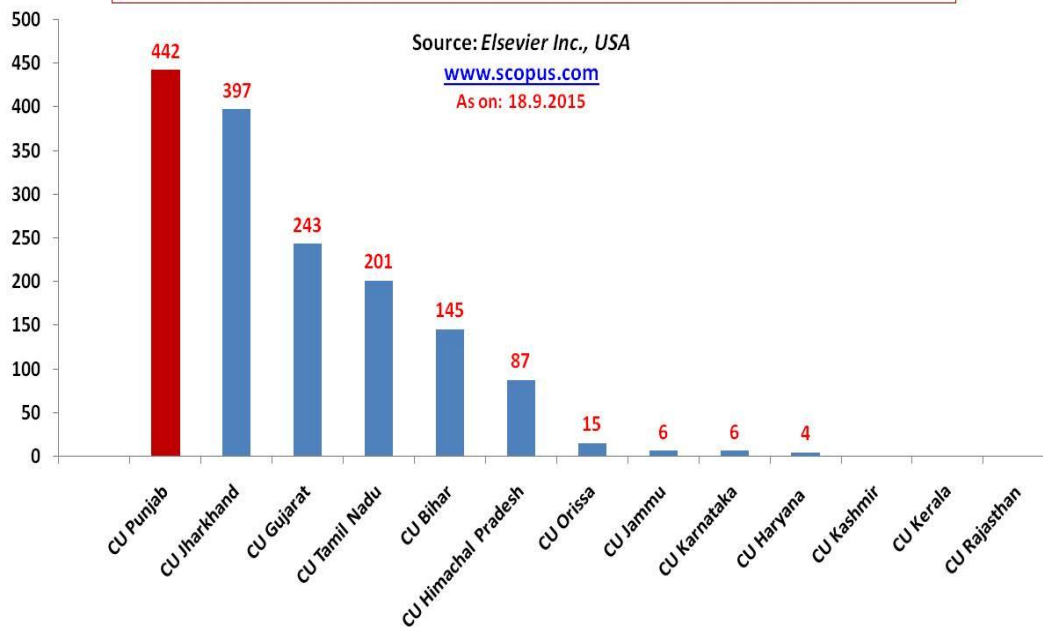


Relative Research Paper Citations of New CU's

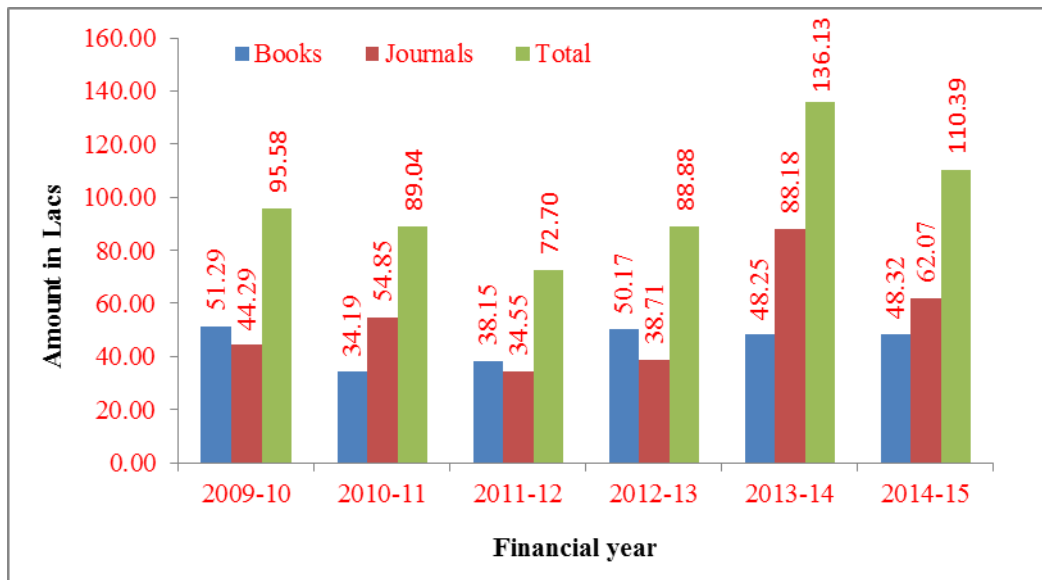
Source: Elsevier Inc., USA

www.scopus.com

As on: 18.9.2015



Budget details of CUPB's University Library



Workshops/Seminars held at CUPB

Bioinformatics in Human Genetics: Mutations, Microarray Analysis and Oncologies

A Joint Indo-German workshop on ‘Bioinformatics in Human Genetics: Mutations, Microarray Analysis and Oncologies’ was organized in association with Institute for Medical Genetics and Human Genetics, Charite-University of Medicine, Berlin, Germany and Guru Nanak Dev University, Amritsar, January 25-29, 2010.

SPSS Training Workshop

One-day SPSS Training Workshop was organized by Centre for Computer Science and Technology and Centre for Mathematical Sciences on June 6, 2014. The participants were trained in SPSS Statistics software package which can be used for various statistical analyses. The participants were given 20 trial CDs of the SPSS software.

Business Process Simulation

Er. Meenakshi and Er. Sukhreet Singh organized a workshop on “Business Process Simulation” on 8 September 2014.

Plagiarism Web Tools

One-day workshop Cum Training Programme on Plagiarism Web Tools held on 12th September, 2014, Organized by University Library.

Fluorescent *in situ* Hybridization (FISH),

The Centre of Human Genetics at Central University of Punjab, Bathinda in collaboration with DSS Imagetech Pvt. Ltd. organized a two day (25th and 26th September of 2014) workshop on Fluorescent *in situ* Hybridization (FISH), a modern technique used in clinics and biomedical research. The fourteen participants had hands on experience about the implementation of the technique in the research laboratory of Centre for Human Genetics.

One day National Workshop on Training the Trainers: Water Quality and Health

CUPB organised one day workshop for the government school teachers, academicians, researchers and students on February 11, 2015. Guest of Honour of

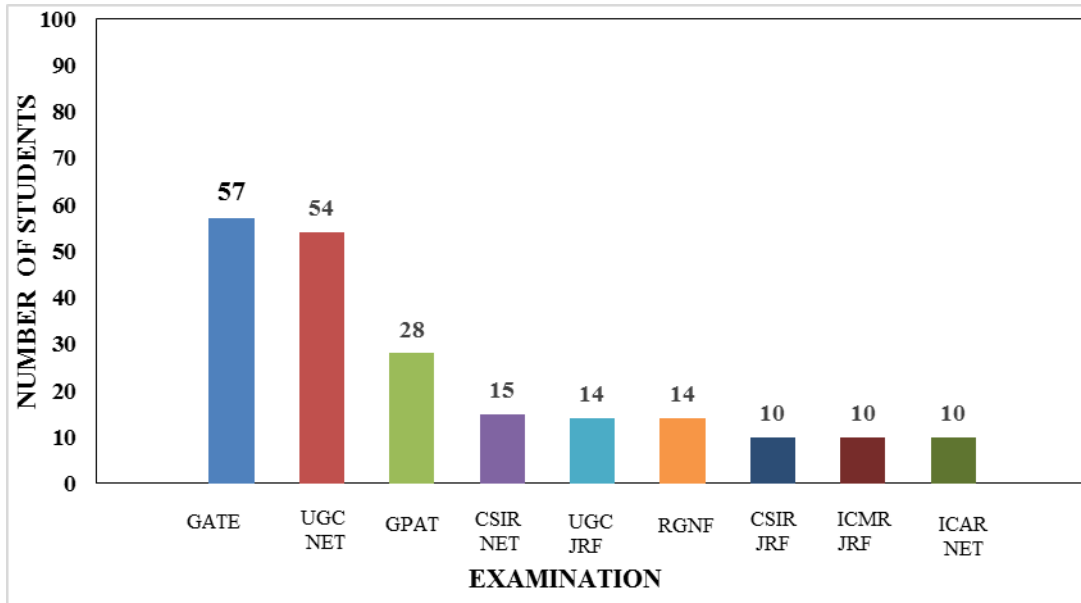
the programme: Dr. Amarjit Kaur Kotfatta, District Education Officer (Secondary Major General (Retd.) R. K. Kaushal described the significance of water while quoting from *Shri Guru Granth Sahib* where Air, Water, and earth has been given equal significance as mentor, father and mother respectively which we all should respect. Key speaker of the workshop: Prof. V. K. Garg of Guru Jambheshwar University.

A poster presentation competition was also organised during the function in which more than 40 participants took part.

Bio-diversity for Sustainable Development

Workshop on 'Bio-diversity for Sustainable Development' organized in collaboration with Punjab State Council for Science and Technology, Chandigarh, National Bio Diversity Authority and State Bio-Diversity Authority, Punjab on International Day for Biological Diversity dated May 22, 2015. Representatives of NGOs, Social Welfare Clubs and Educational Institutes also participated in the event with great enthusiasm.

Students who have qualified National Level Competitive Examination



Outstanding Achievements Recognitions to the credit of CUPB Faculty

National :

- J C Bose National Fellow: 1
- Fellow, Indian National Science Academy: 1
- Fellow, National Academy of Agricultural Sciences:1
- Fellow, National Academy of Sciences:1
- Fellow, Indian Academy of Sciences:1
- DST-INSPIRE Faculty Award: 3
- DST Young Scientist Award: 5
- “Young Scientist Award” by Punjab Academy of Sciences at Punjab Science Congress: 1
- Fellow of Punjab Academy of Sciences, 2015 (FPAS):1
- Awardee of UGC special honorarium of Rs 15000 pm till the age of 65 for being Fellow of academies: 1
- Dr. DS Kothari Post-Doctoral fellowship: 3
- Best Educationist Award: 1
- Prof. V.P. Sharma award for contribution in education: 1
- Sudarshan Rakheja Memorial award for best women educationist: 1
- Presidents Inspired Teachers recognition: 1
- Venus International Foundation's Young Faculty Award: 1
- Ramalingaswami Re-entry fellow 1
- Ramanujan fellow 1

International :

Members of CUPB hold important international professional positions:

- Chair/Coordinator, IUFRO (International Union of Forestry Research Organizations, Austria) International Working Party 8.02.04) on Ecology of Alien Invasive Species (2011-2015)
- Chair/Coordinator, IUFRO International WP 4.02.02 on Multipurpose Inventories (2011-15)
- Member IUFRO Task Force on Forests and Biological Invasions (2015-2020)
- New Investigator International Research Grant, Alzheimer’s Association
- One faculty is serving as adjunct faculty at University of Texas Medical Branch.
- British Phycological Society Bursary award, Japanese Government Monbukagakusho Fellowship, NSF-USA Fellowship
- Members of CUPB faculty are working on the editorial boards of, as many as, 44 national and international journals.

Input of industries in the curriculum revision process.

- Various centres like Chemical Sciences, Pharmaceutical Sciences and Natural Products, Environmental Science and Technology, Human Genetics and Molecular Medicine, Computer Science and Technology have made efforts to explore the requirements of the following industries: Panacea Biotech, Zydus, Cadila, Biocon, Sun Pharma, Lupin Laboratories, Thermax India, Merck Speciality, IBM, HP etc.
- Centre for Pharmaceutical Sciences and Natural Products sought feedback from Cipla and Novartis and modified the curriculum of Basics of Drug Design and Drug Action (PMC.513)
- On the advice given by Punjab Pollution Control Board, the Centre for Environmental Science and Technology modified courses of Environmental Pollution (EVS.603), Profiling Environmental Issues (EVS.604), Water Pollution and Control Test (EVS.508) and Air and Noise Pollution and Management (EVS.509).
- CUPB faculty interacts with industry through its advisory bodies like University-Industry Council and University-Industry Forum. Input from corporate bodies helped to include their ideas in the curriculum of the following courses:
 - i) Concepts in Molecular Medicine (LMM.510)
 - ii) Cancer Biology (LMM.552)
 - iii) Radiation Biology (LMM.553)
- CUPB has been benefitted through interactions with the stakeholders in updating the curriculum according to their requirement in the area of anti-cancer medicine, environmental pollution and climate change.

List of interdisciplinary programmes

Name of the Centre	Name of Programmes	Interdisciplinary subjects included
Biosciences	M.Sc. Biosciences	Computer Application, Chemistry, Botany, Zoology, Microbiology and Biotechnology
South and Central Asian Studies	M.A. International Studies	History, Political Science and Geography
Human Genetics and Molecular Medicine	M.Sc. Human Genetics; M.Sc. Molecular Medicine	Genetics, Molecular Biology, Bioethics, Immunology, Radiation Biology
Environmental Law	LL.M.	Law, Environmental Science
Computational Sciences	M.Sc. Chemistry (Computational Chemistry), M.Sc. Physics (Computational Physics)	Chemistry, Bioinformatics, Physics
Centre for Pharmaceutical Sciences and Natural Products	M.Sc. Medicinal Chemistry	Chemistry, Medicine, Natural Products

CUPB faculty's visits, training and experience abroad

Prof. R. K. Kohli

UNESCO-WHO PDF, Institute of Experimental Botany, Praha, Czechoslovakia, 1978-1979

Prof. P. Ramarao

The University of Illinois, Chicago, USA 1987-1989
Department of Surgery, Beth Israel Hospital, Harvard University, Boston, USA 1989-1990

Prof. A. K. Dhawan

Australian National University, Canberra, Australia 1977-79
Swedish University of Agricultural Sciences, Uppsala 1985
University of California, Davis, USA 1998-99, 2002

Prof. R. G. Saini

University of Sydney, Australia December 1986 - September 1987

Prof. A. K. Jain

University of California, Davis U.S.A. June- August 1986
Royal Institute of Technology, Stockholm, Sweden April –June 1990
Royal Institute of Technology, Stockholm, Sweden January- March 1995

Dr. Rakesh Kumar

University of Leuven, KU Leuven, Belgium Feb. 2012-Feb. 2013

Dr. Krishna Kanta Haldar

Weizmann Institute of Science, Rehovot, Israel, November 2012
Ben-Gurion University of the Negev, Beer Sheva, Israel, July 2013-March 2014

Dr. Rajendra Singh Dhayal

National Dong Hwa University, Hulien, Taiwan July 2011 to Dec. 2014
National Dong Hwa University, Hulien, Taiwan June 2015 to July 2015
National University of Singapore, Singapore November 2011

Dr Vinod Kumar

Siena University Italy, Siena, Italy Jan. 2008 to Dec. 2009
University of Bath, Bath, UK Jan. 2010 to June 2012

Dr. Anil K. Mantha

University of Texas Medical Branch Galveston, TX, USA 30thJan., 2006 – 25thMay, 2012

Dr. Jyoti Prakash

Jean-Pierre Aubert Research Center INSERM U837, Place de Verdun 59045 Lille cedex France 7th Jan., 2008 – 30th June, 2014

Dr. Ajay Kumar

Department of Digestive Diseases, Emory University, Atlanta, USA 5th March, 2014 – 6th March, 2015

Dr. Ramakrishna Wusirika

Purdue University, West Lafayette, Indiana, USA 1997-2003

Michigan Technological University, Houghton, Michigan, USA 2003-2015

Dr. Felix Bast

Kochi University, Japan April 2005-March 2010

Friday Harbor Laboratories, University of Washington, USA July 2007-August 2007

Natural History Museum, London, England January 2009

Dr. Sanjeev Kumar

Plant Industry, Centre for Environment and Life Sciences, CSIRO, Floreat, Perth, Western Australia Sep. 25, 2008-Nov. 10, 2008

Plant Industry, Centre for Environment and Life Sciences, CSIRO, Floreat, Perth, Western Australia Oct. 01, 2009-Dec. 21, 2009

Dr. Anjana Munshi

King Saud University, Riyadh, Saudi Arabia 2011-2012

Dr. Sandeep Singh

City of Hope National Medical Centre, Duarte, USA 1 year 6 months; March 2010 to September 2011

Dr. Monisha Dhiman

University of Texas, Galveston, Texas, USA 6 years 1 month April 2006-May 2012

Harish Chander

Queen's University, Canada June 5, 2010 – Jan. 19, 2014

Mount Sinai School of Medicine, New York, USA November, 2006 – May 31-2010

Institute for Basic Research, Staten Island, New York USA Jan 31, 2005 – November 2006

Dr. Sabyasachi Senapati

University of Groningen, Groningen, The Netherlands March – September 2011

Aklank Jain

Oncology Institute of Southern Switzerland, Bellinzona Switzerland February 2005-
March 2007

MD Anderson Cancer Centre, Houston, Texas, USA June 2007-February 2011

The University of Texas at Austin, Texas, USA March 2011-June 2012

Dr. Somesh Baranwal

University of Pennsylvania, Philadelphia PA. USA October 2004 - April 2007

Louisiana State University, New Orleans, LA. USA May 2007- July 2010

University of Rochester, Rochester NY USA and Virginia Commonwealth
University, Richmond, VA. USA July 2010-January 2013

Virginia Commonwealth University, Richmond, VA. USA February 2013- June
2015

Dr. Kousik Giri

Sheffield University, Sheffield, UK December 2009 – December 2012

Birmingham University, Birmingham, UK March 2007 – December 2009

Dr Mahesh Kulharia

Max Planck Institute for Molecular Physiology and Dortmund University, Germany
2003 – 2008

Cardiovascular Research Institute Maastricht and University of Maastricht, The
Netherlands 2008 – 2010

Leeds University, Leeds, UK 2005 – 2007

Dr Purshotam Sharma

University of Lethbridge, Alberta, Canada January 2012 – April 2015

Dr. Dhanya M.S

University of Saskatchewan, Saskatoon, Canada Sep, 2008- Feb, 2009

Dr. Ashok Kumar

Michigan Technological University, Houghton, USA 15-08-2013 - 20-12-2013

Dr. J. K. Pattanaik

Annual Goldschmidt 2007 Conference, Cologne University, Germany August
2007(12 days)

The University of Florence, Florence, Italy August 2013(13 days)

Dr. Vinay Kumar Rao Associate Professor

Academic Exchange programme on Buddhism in Xian, China July-Aug 2009

Department of Archaeology, Myanmar Sept-Nov, 2010

Dr. Nishtha Kaushiki

Waseda University, Tokyo, Japan August 2008 - September 2008

Declaration of result during Academic Year December 2014 – 2015

Particulars	Semester / Batch	Date of Last Exam	Last date submit Award List to Exam. Cell	Date of Result Declared after all	Days after date of submit award List
End Semester Examination June 2015	4th/2013-14	08.06.2015	within 7 days	25.06.2015	9
End Semester Examination June 2015	2nd/2014-15	12.06.2015	within 7 days	25.06.2015	5
June 2015 Improvement Examination	2nd/2013-14	12.06.2015	within 7 days	24.06.2015	4

*after checking and verification of Result and Tabulation Sheets

Annexure-15

Average pass Percentage of Students

Academic Year	No. of Student Admitted	Students appeared in final Examination	Absent/Fail/Reappear	Pass	Pass % of entire batch
2009-10	10	10	0	10	100.00
2010-11	32	26	0	26	100.00
2011-12	66	57	0	57	100.00
2012-13	129	90	0	90	100.00
2013-14	219	175	4	171	97.71
2014-15	192	156	20	136	87.18
Total	648	514	24	490	95.33

List of students placed at various organizations

S.No.	Name of Student	Centre	Organisation/Institution where employed
1.	Mr. Shokit Amin Poswal	Centre for Biosciences	Teacher, Department of Education, State of Jammu and Kashmir, Srinagar.
2.	Mr. Ashish Kumar Pandey	Centre for Biosciences	Resident Engineer, Confocal Laser Scanning Microscope, Ms. DSS Imagetech, New Delhi, Placed at Imaging facility, CUPB.
3.	Mr. Rajiv Kumar	Centre for Biosciences	Scientific Assistant, Forensic Science Laboratory, Punjab Police Academy, Phillaur, Ludhiana.
4.	Sheetal Sharma	Centre for Biosciences	Senior Associate (Indexing and Abstracting) Innodata India Pvt. Ltd., Sector 62, Noida.
5.	Deependra Kumar	Centre for Chemical and Pharmaceutical Sciences	Data Analyst Innodata, New Delhi.
6.	Vinay Gupta	Centre for Chemical and Pharmaceutical Sciences	Technical Analyst Evalueserve, Gurgaon, New Delhi.
7.	Prakriti Monga	Centre for Chemical and Pharmaceutical Sciences	Chemical Analyst Ind Swift, Chandigarh.
8.	Nidhi Singh	Centre for Chemical and Pharmaceutical Sciences	PGT teacher, Ghaziabad, UP.
9.	Ramandeep Kaur	Centre for Chemical and Pharmaceutical Sciences	Lecturer, Mata Sahib Kaur, college Talwandi Sabo.
10.	Ashish Ranjan Dwivedi	Centre for Chemical and Pharmaceutical Sciences	Research Associate Integral Biosciences, New Delhi.
11.	Anil Rana	Centre for Chemical and Pharmaceutical Sciences	Research Associate Integral Biosciences, New Delhi.
12.	Vijayinder Saini	Centre for Chemical and Pharmaceutical Sciences	Research Associate Integral Biosciences, New Delhi
13.	Gagandeep Kaur	Centre for Chemical and Pharmaceutical Sciences	Data Analyst Parexal (Heron), Chandigarh.
14.	Mayank	Centre for Chemical and Pharmaceutical Sciences	Pharmacist, NRHM, Bathinda.
15.	Gaurav Joshi	Centre for Chemical and	Project Fellow (UGC Major

		Pharmaceutical Sciences	Project), Central University of Punjab, Bathinda.
16.	Khushmeet Singh	Centre for Computer Science and Technology	Inspector (Grade 1), Department of Food Civil Supplies and Consumer Affairs, Govt of Punjab.
17.	Mandeep Singh	Centre for Computer Science and Technology	Inspector (Grade 1), Department of Food Civil Supplies and Consumer Affairs, Govt of Punjab.
18.	Amandeep Kaur	Centre for Computer Science and Technology	Junior Research Fellow (JRF) Terminal Ballistics Research Laboratory (TBRL) –Defence Research and Development Organization (DRDO).
19.	Krishan Singh	Developmental Economics	Researcher, Planning Commission, Chandigarh.
20.	Rajpreet Kaur	Developmental Economics	Teacher, Govt. Sen. Sec. school, Pathrala, Bathinda
21.	Pushpinder Kaur	Developmental Economics	Teacher, Govt. Middle School, Mandi Khurd, Bathinda.
22.	Disha Bains	Comparative Literature	Assistant Prof in English at K.M.R.D. Jain college, Malerkotla.
23.	Manpreet Kaur	Comparative Literature	PGT-English Govt. Adarsh Sen. Sec. School, Bukan Khan Vala, Ferozpur.
24.	Rajbinder Singh	Centre for Environmental Science and Technology	Setia Paper Mill, Muktsar, Punjab.
25.	Kirti Shrama	Centre for Environmental Science and Technology	Satluj Jal Vidyut Nigam Ltd. Jhabri, Shimla, Himachal Pradesh.
26.	Parminder Singh	Centre for Environmental Science and Technology	ATMA Scheme, Govt. of India
27.	Tarandeep Kaur	Centre for Environmental Science and Technology	Akal College, Faridkot, Punjab
28.	Rimzim Gill	Centre for Environmental Science and Technology	Food Inspector, Govt. of Punjab, Muktsar
29.	Amita Bhatti	Centre for Environmental Science and Technology	University of Birmingham, UK

SC, ST and OBC students admitted to CUPB

Session	Total Intake	Gen Seats	SC Seats	OBC Seats	ST Seats	PWD Seats	Total Filled Seats
2009-10	20	4	3	3	0	0	10
2010-11	32	23	3	5	1	0	32
2011-12	110	52	4	9	1	0	66
2012-13	145	86	18	22	3	0	129
2013-14	301	128	30	52	7	2	219
2014-15	290	127	25	34	4	1	191
2015-16	507	246	50	104	27	0	427
Total	1405	666	133	229	43	3	1074
Aggregate % age of Seats Filled		47.40	9.47	16.30	3.06	0.21	76.44

The details of faculty diversity

Faculty / Department	% of faculty from the same university	% of faculty from other universities within the State	% of faculty from universities outside the State	% of faculty from other countries	SC	ST	OB C	% of faculty with Post-Doc /Work Experience at Foreign University
Centre for Chemical Sciences	None	50	50	0	01	-	01	50%
Centre for Pharmaceutical Sciences and Natural Products	None	75	25	0	-	-	01	25%
Centre for Animal Sciences	None	25	75	0	01	-	01	60%
Centre for Plant Sciences	None	40	40	20			01	60%
Centre for Biochemistry and Microbial Sciences	None	25	75	0	01			50%
Centre for Physical Sciences	None	0	100		01		01	66%
Centre for Environmental Science and Technology	None	60	40	0	-	-	01	-
Centre for Human Genetics and Molecular	None	15	85	0	01	-	01	43%

Medicine								
Centre for Computer Science and Technology	None	100	-	0	-	-	-	-
Centre for Computational Sciences	None	0	67	33	-	-	01	66%
Centre for Mathematics and Statistics	None	50	50	-	01	-	01	66%
Centre for Legal Studies and Governance	None	50	50	-	01	-	01	-
Centre for Comparative Literature	None	75	25	-	-	-	01	25%
Centre for South and Central Asian Studies	None	25	75	-	01	-	01	-
Centre for Economic Studies	None	50	50	-	01	-	01	-
Centre for Classical and Modern Languages (Punjabi Language, Literature and Culture)	None	50	50	-	-	01	01	-
Centre for Sociology	None	0	100		01		01	-
Centre for Geography and Geology	None	0	100			01		-
Centre for Education	None	33	67		-	-	02	25%
Overall Average	0	38.05	59.15	2.78	0.52	0.10	0.89	28.21