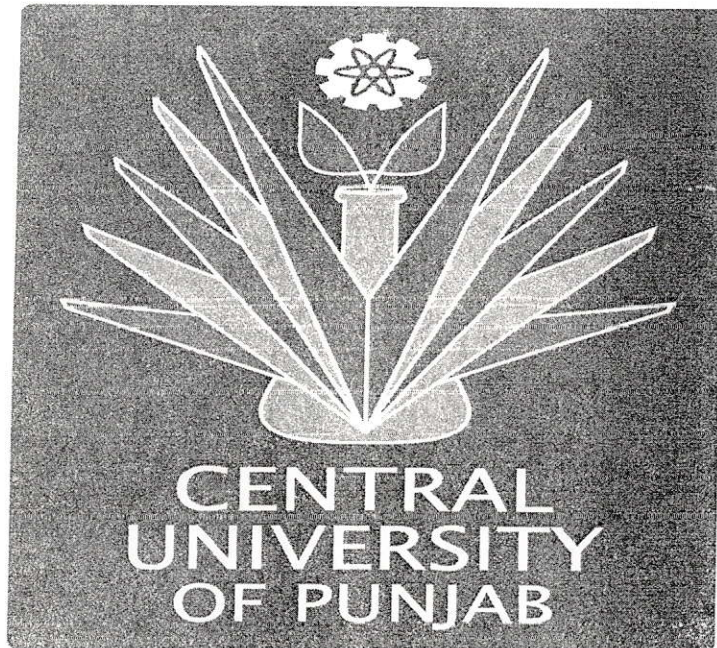


Central University of Punjab
Bathinda



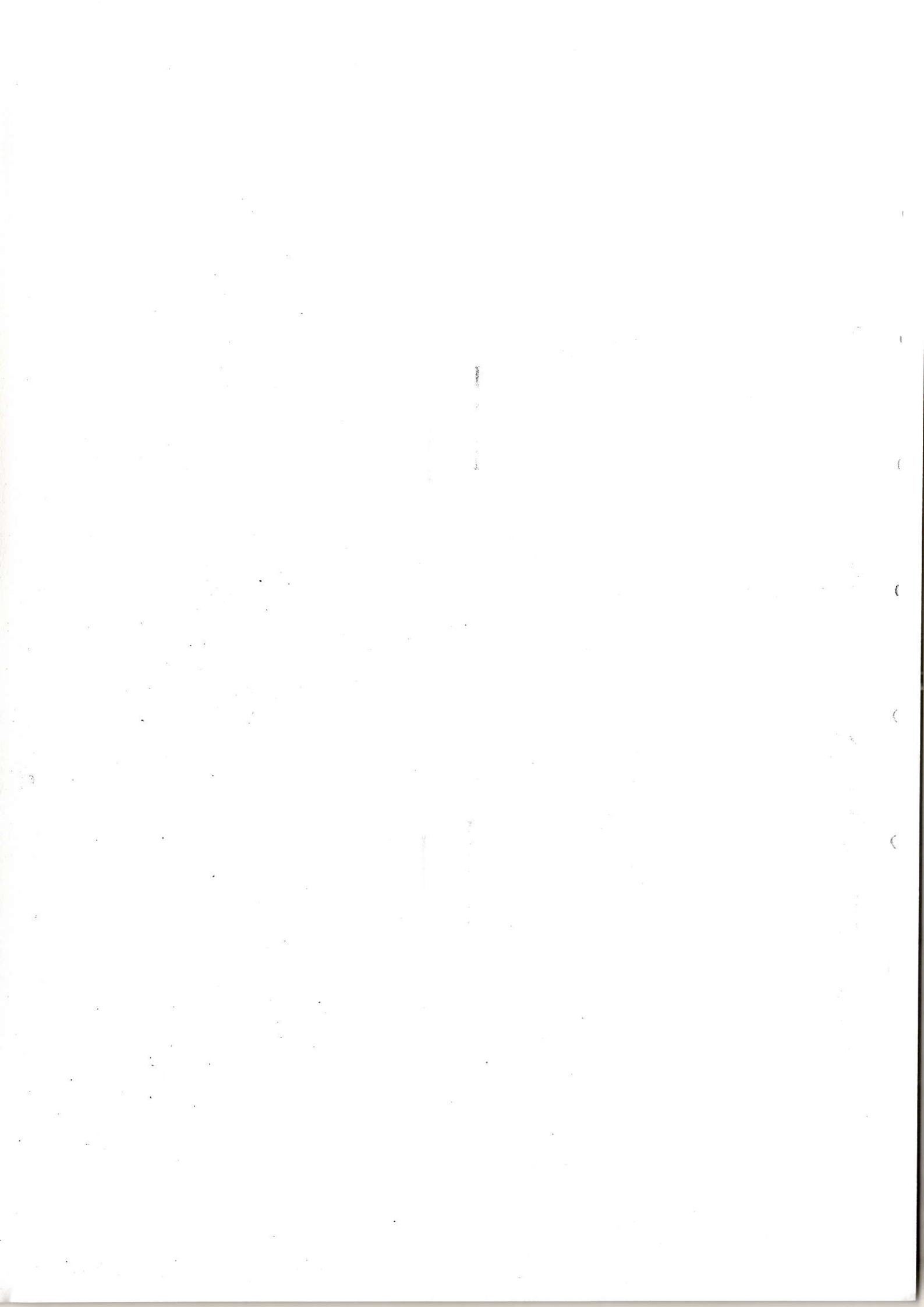
Minutes

of

16th Meeting of the

Executive Council

25th July, 2015





**MINUTES of the
Sixteenth Meeting of the Executive Council
held in Chandigarh on 25th July, 2015**

Sixteenth Meeting of the Executive Council Meeting was held on 25th July 2015 at ICSSR Golden Jubilee Seminar Hall, Panjab University, Chandigarh. The following members were present:

- 1) Prof. R. K. Kohli, Vice Chancellor – on Chair
- 2) Er. Shamlal Garg, – Member
- 3) Shri Vijay Inder Singla – Member
- 4) Prof. P. Ramarao – Member
- 5) Dr. Zameerpal Kaur – Member
- 6) Dr. Pankaj Khare – Secretary

Prof. R. C. Sobti could not attend the meeting due to his prior engagements. Ms. Shweta Arora, Deputy Registrar, Mr. Nivedan and Mr. Vivek Kumar assisted the meeting.

At the outset, Chairman and Vice-Chancellor, Central University of Punjab welcomed the members to the 16th Meeting of Executive Council and introduced Dr. Pankaj Khare as newly appointed Registrar and Secretary to the Executive Council.

Chairman requested Secretary to present the Agenda Items one by one to the Members for deliberations and decisions. Secretary, Dr. Pankaj Khare presented the Items in the sequence.

Item : 16:2015:1

To confirm the minutes of the Fifteenth Meeting of Executive Council held on 24th May and 2nd June 2015.

It was submitted to the EC that the draft minutes of the Fifteenth Meeting of Executive Council were circulated to all the members and no comments were received on the EC Minutes. However, some observations by the Hon'ble Member of Finance Committee, Jt. Secretary (FA), MHRD on the Minutes of the 9th Meeting of the Finance Committee were received after the EC meeting. The FC members desired details regarding Tender Process for campus construction, to be recorded on the technicalities that forced PMC to cancel earlier NIT, in the Items FC:9:15:6 and FC:9:15:10 (were considered together by the FC). It was informed to EC that the revised minutes of FC (which have been recorded and circulated) shall be placed before the Finance Committee in its next meeting and draft minutes of FC:9:15:6 (to be read with FC:9:15:10) are corrected and submitted to EC for consideration:

Item No. FC:9:15:6 read,

"...

The officers of EIL shared the technicalities that forced them to annul the earlier process of tendering and issue of fresh tenders. They showed new Notice Inviting Tenders that appeared in Hindustan Times, Times of India, Jagbani etc.

...."

Khare
31/7/15



The Comments received from Member, Finance Committee, Shri Fazal Mahmood, Dy. Secretary (Finance), MHRD, are reproduced hereunder:

"The Finance Committee was informed that due to technical reasons, the award of Work to the L 1 bidder M/s Universal Contractors & Engineers Pvt. Ltd., Greater NOIDA, for buildings in the main campus of the Central University of Punjab (CUPB), Bathinda, had been cancelled and that fresh tenders had already been invited, in consultations with the CUPB. The reason given was that subsequent to approval of Award of Work of CUPB; the Project Management Consultant (PMC) i.e. Engineers India Ltd (EIL) had noticed/ established that the L1 bidder had submitted false Completion Certificate in their proposal against one of their tenders invited earlier by EIL in connection with some other project.

However, while the Finance Committee was informed that the earlier Award of Works to the L1 bidder had been cancelled and fresh NIT had been issued with a revised time schedule of 18 months; it was not clarified whether (a) the subject firm (L1 bidder) was still executing other projects managed by EIL or/and the firm has been black listed by EIL from bidding for all future projects EIL Projects and (b) the cancellation of the project is legally tenable, in terms of the rules and procedures to be followed by the EIL in all such cases."

The Amended part of the FC Minutes on Item No. FC:9:15:6, now reads.

*"...
The officers of EIL shared the technicalities that forced them to annul the earlier process of tendering and issue of fresh tenders. They further clarified with respect to the subject since the firm (L1 bidder), M/s Universal Contractors and Engineers Pvt. Ltd. had submitted false Completion Certificate, concerned Department in EIL had initiated necessary action and it was finally decided to put the agency on "Negative List" of EIL Data Bank of Construction Contractors. The decision to annul the tender was taken after approval by Competent Authority in EIL after looking into all legal aspects. They also showed new Notice Inviting Tenders that appeared in Hindustan Times, Times of India, Jagbani etc.
...."*

The clarifications sought from PMC, EIL on the observations of the Hon'ble Member of FC are placed at Annexure 16.1 that was also considered by the Council.

Executive Council with due deliberations and noting on the FC Minutes, resolved unanimously to confirm the minutes of its 15th Meeting.



Item : 16:2015:2
To accept the Actions Taken Report (ATR) on the decisions of Fifteenth Meeting of Executive Council held on 24th May and 2nd June 2015.

The details of the actions taken on the decisions taken by the Executive Council in its Fifteenth Meeting were placed before the EC as **Annexure-16.2.**

Executive Council considered the ATR and desired to complete the implementation of the resolves at the earliest.

Council noted the Actions Taken in most of the decisions.

Item : 16:2015:3
To consider Report of the Vice Chancellor on the progress of the University

The Secretary requested Vice-Chancellor to present the Progress of the University since the last Meeting of the Executive Council. The Chairman made a detailed presentation on the admissions of new cohort of students, joining of new faculty members, research activities at the University that have given a lead position to Central University of Punjab in terms of *h*-factor, citations, SCOPUS standing, amongst all newly established Central Universities. The presentation is **Annexed at 16.3.**

The Council deliberated on the issue of less response for some of the courses offered by the University. The Chairperson informed that as per earlier decision of Executive Council no course is to be started where the number of admissions is less than 10. However, when a new course is initiated there is always low response in the beginning. As the faculty recruited for a Centre has many courses under them and they also guide students of other Centres under CBCS scheme (for optional courses), starting a course with less number of students is not a burden on the university exchequer.

Executive Council after discussions unanimously expressed satisfaction on the progress of the University.

Item : 16:2015:4
To consider a Report on the Status of admission for session 2015-16.

The Secretary informed the Council about the status of admission for session 2015-16 on the basis of the result of Central Universities Common Entrance Test (CUCET 2015) and presented the Admission report.

The Meeting considered the programme-wise details of admitted numbers of students as provided in **Annexure 16.4.**

The Council observed less response in some of the courses offered by the University. The Chairperson informed that a Spot Admission is scheduled for 20th August 2015 for the vacant seats and the university is expecting more number of students coming for these courses. Further, as the earlier courses offered by the University were not getting much response as far as placements is concerned, these programmes were split into more acceptable and in demand courses. The new courses are being offered for the first time and seats for most of them are already filled. The other few courses with relatively lesser intake will still be started keeping in view inflow of students from other



programs taking these courses as their optional course.

It was brought to the notice that admission response this year had been extremely good. Because of paucity of class room space the University cannot admit more than 15 students in each course (except in two courses, where number is already defined by statutory programme regulatory authorities (M.Pharm - 18 and for M.Ed. -50).

Executive Council after discussions, resolved to express satisfaction on the report on the Status of admission for session 2015-16.

Item : 16:2015:5
To consider a report on the Massive Plantation Campaign at the Main Campus, Ghudda, held on 19th July, 2015

The Secretary apprised the Council about the Massive Plantation Campaign on the new campus at Ghudda on Sunday 19th July 2015 which was organized as a part of World Environment Day celebrations.

Dr. Basant Garg, IAS, Deputy Commissioner Bathinda lead the campaign along with Shri S.K. Tiwari, IFS, Divisional Forest Officer Bathinda, Shri A.K Dabral, Deputy Commandant NDRF, Er. Rupinder Singh Sekhon General Manager Verka Milk plant. All faculty, students and non-teaching staff of CUPB and a team of National Disaster Response Force (NDRF) participated in this noble cause and planted saplings. The details of the plantation drive are provided in **Annexure 16.5**.

The Council considered and appreciated the efforts of the students, faculty and staff and accepted the report on Plantation Drive on the main campus.

Item : 16:2015:6
To consider offer of appointment issued to Dr. Vivek Kumar, Assistant Professor in Centre for Mathematics

The Secretary informed the House that Dr. Vivek Kumar was offered appointment as Assistant Professor in the Centre of Mathematics, under the OBC Category (Non-creamy) as per the recommendations of Selection Committee which were duly approved by the Executive Council vide item No. EC:15:15:5 in its 15th Meeting.

Dr. Vivek Kumar informed the university, on receipt of the offer of appointment that his OBC category Certificate (submitted at the time of the interview) under the recent Hon'ble Supreme Court Judgment of March 2015 stands quashed. As such the JAT community no longer is covered in the Central list of OBC for the state of Uttar Pradesh.

The Hon'ble Supreme Court in its Judgment dated 17/03/2015 has set aside and quashed the notification bearing No. 63 dated 4.3.2014 which included the JATS in the Central List of OBC for the states of Bihar, Gujrat, Haryana, Himachal Pradesh, Madhya Pradesh, NCT of Delhi, Bharatpur and Dholpur Districts of Rajasthan, Uttar Pradesh and Uttrakhand.

In the light of the judgments of Hon'ble Supreme Court, candidature of Mr. Vivek Kumar has automatically comes under the General category for which his selection was not recommended.



In the light of above, the offer of appointment issued to Dr. Vivek Kumar was kept in abeyance and legal opinion was sought. Dr. Vivek was also informed about the decision of the University, vide letter No: CUPB/CC/15/PF/1305 dated 19/06/2015. A legal advice was sought by providing all the fact to the legal retainer. The advice received by the University is under:

"When the Apex Court has set aside notification dated 4.3.2015 under which Jats were in the list of OBC then the name of Dr. Vivek Kumar cannot be considered under OBC category."

Second legal opinion from the University's Law faculty was also sought. Following opinion was received:

"The Law of the land clearly indicates that JAT Community is not covered under Central List of OBC by virtue of judgment of the Supreme Court (refer also NCBC Central List of OBC in different states).

The applicant Dr. Vivek Kumar thus, cannot claim quota set-aside/ earmarked by CUPB for the position of Asstt Prof. in Mathematics.

Since Dr. Vivek Kumar was not recommended under General category and his claim under OBC Quota as laid down in the advertisement is not justifiable. Therefore, the offer letter for appointment is tenable for withdrawal."

Further, the Supreme Court In its latest decision on 21st July 2015 rejected the Central Government Review against scrapping quota for Jats in 9 States.

The Executive Council considered the above facts and deliberated that as the candidate has not yet joined the university and is also well aware of the legal implications involved in the matter that he cannot be considered as OBC (Non-creamy) candidate. Moreover, CUPB is to abide by decisions of the Supreme Court of India.

Further, the Council resolved to withdraw the offer of appointment made to Dr. Vivek, as he is not eligible under OBC category (Non-creamy) and he has not been selected under General category.

EC16:2015:7

To consider the appointments of Faculty positions at various Centres in the University

In accordance with Statutes (Second Schedule) 22, the sanctioned faculty positions in various Centers of Studies at Central University of Punjab, interviews were conducted for vacant positions of Professors, Associate Professors and Assistant Professors between 28th June and 22nd July, 2015. The recommendations of the Selection Committees were placed before the EC.

The Executive Council considered the recommendations made by various



Selection Committees, deliberated on the selection criteria, methodology and marks awarded to candidates by the experts. The following candidates were recommended by the respective Selection Committees:

1. **Geology/Earth Science** (Centre for Geography & Geology, School of Environment and Earth Sciences)

Assistant Professors (Payband 15600-39100, AGP Rs. 6000/-)

- i Dr. Jitendra Kumar Pattanaik (UR)
Waitlisted: Naveen Pareek (UR)
- ii Dr. Kongrailatpam Milan Kumar Sharma (OBC)

2. **Geography** (Centre for Geography & Geology, School of Environment and Earth Sciences)

Assistant Professors (Payband 15600-39100, AGP Rs. 6000/-)

- i Dr. L. T. Sasang Guite (ST)

3. **Plant Sciences** (Centre for Plant Sciences, School of Basic and Applied Sciences)

Professor (Payband 37400-67000, AGP 10000/-)

- i Dr. Ashok Kumar Dhawan (UR)
Waitlisted: Dr. Rama Krishna Wusirika (UR)

However, the candidate on the waitlist of the candidates selected as Professor, i.e. **Dr. Rama Krishna Wusirika (UR)** has consented to join as Associate Professor. Accordingly, the Selection Committee recommended him for Associate Professor position with FIVE Advance increments.

Associate Professor (Payband 37400-67000, AGP 9000/-)

- i None Found Suitable (NFS)

Assistant Professors (Payband 15600-39100, AGP 6000/-)

- i Dr. Vinay Kumar (OBC)
Waitlisted: Dr. Harmanjit Kaur (OBC)

4. **Sociology** (Centre for Sociology, School of Social Sciences)

Assistant Professors (Payband 15600-39100, AGP 6000/-)

- i Dr. Aditya Ranjan Kapoor (OBC)
Waitlisted: Dr. Amit Kumar (OBC)
- ii Dr. Vinod Arya (SC)
Waitlisted: Dr. Reema Gill (SC)
- iii None Found Suitable (NFS) against ST Position
- iv None Found Suitable (NFS) against UR Position.

5. **History** (Centre for South and Central Asian Studies (including Historical Studies), School of Global Relations)

Associate Professors (Payband 37400-67000, AGP 9000/-)

- i Dr. Vinay Kumar Rao (UR)

Assistant Professors (Payband 15600-39100, AGP 6000/-)

- i None Found Suitable (NFS)

M. A. S.
31/7/16



6. **Political Science (Centre for South and Central Asian Studies (including Historical Studies), School of Global Relations)**
Assistant Professors (Payband 15600-39100, AGP 6000/-)
 - i Dr. Sudheer Singh Verma (OBC)
7. **Pharmaceutical Sciences (Centre for Pharmaceutical Sciences and Natural Products, School of Basic and Applied Sciences)**
Associate Professors (Payband 37400-67000, AGP 9000/-)
 - i None Found Suitable (NFS)
Assistant Professors (Payband 15600-39100, AGP 6000/-)
 - i Dr. Pradeep Kumar (OBC)
Waitlisted: Dr. Deepak Kumar (OBC)
8. **Computer Science (Centre for Computer Science and Technology, School of Engineering and Technology)**
Professor (Payband 37400-67000, AGP 10000/-)
 - i None Found Suitable (NFS)
Associate Professors (Payband 37400-67000, AGP 9000/-)
 - i Dr. Amandeep Kaur (UR)
 - ii Dr. Vishal Gupta (UR)
9. **Human Genetics (Centre for Human Genetics, School of Health Sciences)**
Assistant Professors (Payband 15600-39100, AGP 6000/-)
 - i Dr. Sabyasachi Senapati (UR)
Waitlisted: Dr. Vivek Vaish (UR)
 - ii Dr. Neeraj Kumar (OBC)
10. **Genetic Diseases and Molecular Medicine (Centre for Human Genetics Centre for Genetic Diseases and Molecular Medicine (including Bioinformatics), School of Emerging Life Sciences)**
Professor (Payband 37400-67000, AGP 10000/-)
 - i None Found Suitable (NFS)
Assistant Professors (Payband 15600-39100, AGP 6000/-)
 - i None Found Suitable (NFS)

EC unanimously resolved to approve the recommendations of the Selection Committees and allowed to make offer of appointment to the above candidates recommended for selection in different Centres in the School of Studies.

Item : 16:2015:8
To consider appointment of
Dr. A.P. Pathak as Invited
Professor of Physics at the
University

The Secretary presented the Item for considering the appointment of Dr. A.P. Pathak as Invited Professor of Physics. The Chairman apprised the EC members that for the young university, the faculty is young, though meritorious but there is lack of leadership. In spite of the Rolling advertisement in place and periodic notices for filling vacant positions the University has not received many applications from the eligible candidates for the position of Professors. However, the University is in need for senior faculty members to lead the Centre for innovative and research oriented activities.



To bridge the gap arising due to non-availability of candidates and the need for discipline leaders, using the provisions of the University Act, Schedule II Clause 18 (6), and on the recommendations of a senior faculty, the University would like to invite Dr. Anand Prakash Pathak (68 yrs) as an **Invited Professor in the Centre for Physics** to get the benefits from his vast experience and leadership. His detailed CV is placed at **Annexure 16.6**.

It was made known that very shortly a notice inviting applications for various faculty positions that are vacant or remaining/fallen vacant after the joining of selected candidates will be advertised in the national newspapers.

The EC considered the biodata of Dr. A.P. Pathak and also deliberated on the mechanism involved to appoint senior and experienced faculty in view of the less number of applications being received.

After discussions, the Council unanimously resolved to appoint Dr. Pathak *as Invited Professor* for a period of one year or till the appointment of regular Professor in the Centre for Physics, whichever is earlier on a maximum lump-sum remuneration of one lac per month or last pay drawn minus pensions whatever is less, subject to medical fitness certified by the doctor of the University.

Item : 16:2015:9
To consider appointment of Prof. Parveen Chand Sharma as Invited Professor of Microbiology at the University.

The EC was made aware of the requirement of a senior faculty at the Centre for Biochemistry and Microbial Sciences, on the similar lines as placed under Agenda item EC16:2015:8, and the recommendations of a senior Professor, University to invite Prof. Parveen Chand Sharma as an **Invited Professor in the Centre for Biochemistry & Microbial Sciences**.

The CV of Prof. Sharma as considered by the EC is placed at **Annexure 16.7**.

The EC considered the biodata of Prof. Sharma and in view of shortage of senior faculty, resolved to appoint him for a period of one year or till the appointment of regular Professor in Centre for Biochemistry and Microbial Sciences, whichever is earlier on a maximum lump-sum remuneration of one lac per month or last pay drawn minus pensions whatever is less, subject to medical fitness certified by the doctor of the University.

Item : 16:2015:10
To consider the minutes of the 1st meeting of IQAC held on 10th July, 2015.

The EC was informed that the Internal Quality Assurance Cell (IQAC) was constituted as approved vide Item No. EC:15:15:18. The first meeting of the IQAC was held on 9th July 2015.

The Executive Council considered the minutes of the first meeting of the Internal Quality Assurance Cell (IQAC) held on 9th July 2015 as placed at **Annexure 16.8**, and unanimously resolved to approve the same.



Item : 16:2015:11
To consider the minutes of
the 24th meeting of
Building Advisory
Committee held on 16th July
2015.

The Secretary informed the EC that the 24th meeting of the Building Advisory Committee (BAC) was held on 16th July, 2015 to consider various matters related with the construction at the Main Campus of the University at Ghudda. The BAC deliberated on the recommendations of the Committee and took appropriate decisions as per the minutes placed at Annexure 16.9.

The Minutes of the Meeting of the Cell were brought to the knowledge of the Council.

The main decision of the 24th Meeting of BAC was on construction of Phase 1A at the Main Campus that was subdivided as Section 'A' with total estimated price of work as Rs. 70,83,09989 and Section 'B' with total estimated price of work as Rs. 65,39,35,541. BAC considered and unanimously approved the recommendations of PMC, M/s EIL, to allocate the construction work to the identified contractor, M/s. K.S.M. Bashir Mohamad and Sons @ (-) 7.89% of the tendered cost, i.e., total quoted cost @Rs.65,24,24.331/- for Section 'A' and @ Rs. 61,54,18,738/- for Section 'B' of construction of Phase 1A. The target time assigned to contractor is 18 months from the date of allocation of work both for Section 'A' and 'B'. The PMC, EIL issued the Letter of Acceptance (LOA) to the contractor on 21st July, 2015.

The EC considered the recommendations of the 24th Meeting of BAC for allotment of work order to M/s. KSM Bashir Mohammad & Sons, Lucknow for Section A+B for placing an order of development of main campus Phase-1A works as detailed in BAC meeting minutes.

Council unanimously resolved to approve the minutes of 24th BAC meeting.

Item : 16:2015:12
To consider appointment of
Coordinator and Assistant
Coordinator at the
Community Development
Cell.

The Secretary submitted to EC that a *Community Development Cell* has been established by the university as approved by EC vide Item No. EC:15:15:13.

The faculty involved in the functioning of this Community Development Cell is also involved in teaching and research at the University. To facilitate the Community Development Cell and for its targeted tangible outcomes, it was proposed to hire services of two persons as per eligibility and work assignment details as under:

a) CDC Coordinator

The candidate should be an educated male; with knowledge of Punjabi; some experience in law; should be able to coordinate with local administration and police; medically fit; aware of village communities.

The responsibilities of a Coordinator involve getting the parameters tested in laboratories on the campus under the Community Development:

- i. Ground and surface water
- ii. Soil health
- iii. Food grown in the area



- iv. Human health through testing of relevant parameters of the blood samples of the residents of the villages targeted for the purpose.

Salary- Rs. 20,000-25,000/- per month

b) CDC Assistant

The candidate should be an educated male; with knowledge of Punjabi; some experience in nursing and collection of samples; must know two-wheeler driving and should have a valid licence.

The job profile of a Assistant Coordinator involves collection of samples and assisting the coordinator in his tasks and duties as assigned by the Cell.

Salary- Rs. 10,000-15,000/- per month

The Executive Council considered and unanimously resolved to approve the proposal.

**Item : 16:2015:13
To consider the case of
appointment of Ms.
Poonam Rani as UDC.**

The Council was briefed about the case of confirmation of appointment of Ms. Poonam Rani as UDC as deliberated in the 14th meeting of the Executive Council, vide Item No. EC:14:2015:1C.

The Secretary informed that consequent to the decision of EC, OSD (Finance) was assigned the responsibility to study the case and submit a report. On basis of the Report of OSD (Finance), a Show Cause Notice was served to Ms. Poonam Rani on 22nd May 2015. She filed a reply on 9th June 2015 and denied all the charges levied on her. Show Cause Notice and its reply are placed at **Annexure 16.10**.

After deliberating in detail the issue and looking at the records available EC considered the matter again and unanimously resolved to initiate an inquiry against Ms. Poonam as per the procedure laid down under CCS (CCA) Rules. The EC also resolved to authorize the Vice Chancellor to appoint a Retired Judge as inquiry officer from the following names in order of merit:

1. Justice (Retd.) M. M. Kumar, Chief Justice (Retd.), J & K
2. Justice (Retd.) S.K. Garg, (Add. Distt Judge) Bathinda
3. Justice (Retd.) S.C. Jain, Chandigarh
4. Justice (Retd.) Indrajit Sharma, Patiala

It was also resolved to fix consolidated honorarium (one time instead of fee per sitting) between Rs. 50,000/- to Rs. 1 lac for the inquiry officer depending on the stature of the judge before the retirement. It was further suggested that the time limit for the inquiry be 2 months. It was also resolved that the Controller of Examinations be the Presenting Officer.

Handwritten signature and date: 31/7/15



CURRENT AGENDA

Item : 16:2015:14

To consider requirement of additional human resource for the University.

The Secretary highlighted the increased workload in the university in view of starting of more courses from the current session. The University has received appreciable response against the admission advertisement and around 400 new students will join the University. With new centres and fresh appointments of faculty, the human capital has increased. The University has also established new laboratories and teachers' room in the City Campus. As the university is mostly running research programs, on demand of students and faculty the library timings have also been extended till 12.0 midnight (till 10 pm for girl students) residing in hostels. Further, additional hostels are being set up to accommodate the students admitted for current session. In addition to these extended scopes of work at the city campus, the horticulture work has already started and construction work is also expected to commence in August at the main campus of the university.

There is need for round the clock security of the university campuses with maintenance and housekeeping of the hostels, laboratories that calls for additional human resource for library, management of buildings, labs, lawns and hostels at city campus and security and horticulture workforce at main campus. The university proposed to hire services of 30 additional human resources through outsourcing agency with the judicious utilization.

The Executive Council unanimously approved hiring of 30 more persons in addition to the existing workforce through the empanelled outsourced agency for both campuses.

Item : 16:2015:15

To consider the extending benefits of past services of regular faculty.

The Executive Council was informed that as per the decision of EC in its 11th meeting (Item No. EC:11:2014:16), the Vice Chancellor constituted a committee to examine the cases of counting of past service of the regular faculty.

The Council considered the recommendations of this committee regarding the counting of past services of the eligible 39 faculty members as per UGC Guidelines as per **Annexure-16.11**.

The Council after considering the cases unanimously resolved to approve the recommendations and allowed to give the benefit of past services to the regular faculty as per UGC regulations.

Item : 16:2015:16

To consider merger of Centre for Genetic Diseases and Molecular Medicine, School of Emerging Life Sciences and Centre for Human Genetics, School of Health Sciences

The Secretary informed the Council that as per the approved Ordinance I of the University, the Centre for Genetic Diseases and Molecular Medicine (CGDMM) was approved under School of Emerging Life Sciences Technologies whereas, the Centre for Human Genetics (CHG) was approved under School of Health Sciences. The University had established these two Centres and appointed three Asstt. Professors in CGDMM and one Associate Professor and one Asstt. Professor in CHG. The number of students admitted in both the Centres all together is 17



during session 2014-15. The number has reduced to 13 during session 2015-16.

The Chairman elaborated that as both the Centres are more or less sharing the similar disciplines and subject matter, it was thus deliberated to find out possibilities of merging the two Centres and create a new Centre in the School of Health Sciences as **Centre for Human Genetics and Molecular Medicine (CHGMM)**. He further pointed out that the sanctioned positions in the newly established Centre shall have no effect on the appointed faculty positions as this new Centre will get one Associate Professor and four Asstt. Professors from the earlier two Centres. The number of students will also increase due to merger of centres.

EC considered recommendations and allowed the merger of the Centre for Genetic Diseases and Molecular Medicine under School of Emerging Life Sciences with the Centre for Human Genetics under School of Health Sciences and rename it as Centre for Human Genetics and Molecular Medicine under School of Health Sciences. It is also unanimously resolved to inform the Visitor of the University accordingly.

Item : 16:2015:17
To consider constitution of
School Boards under
Ordinance X (Statue 15 (2-4))

The Council was informed that as per Ordinance X (**Annexure-16.12**) of the University, the School Board for each School needs to be constituted. The Statute 15(2) of the Central Universities Act, 2009 provides that the first School Board of each School shall be nominated by the Executive Council for a period of three years.

The EC considered the constitution of each School Board as provided in the Statute 15(2) of the Central Universities Act, 2009 and resolved to authorize the Vice Chancellor to nominate the School Boards of following ten Schools of the University as proposed at **Annexure-16.13** for a period of three years:

1. School of Basic and Applied Sciences
2. School of Environment and Earth Sciences
3. School of Emerging Life Sciences
4. School of Health Science
5. School of Languages, Literature and culture
6. School of Engineering and Technology
7. School of Global Relations
8. School of Social Sciences
9. School of Legal Studies and Governance
10. School of Education

Item : 16:2015:18
To consider construction of
porta cabin as hostel
accommodation for Boys

The Secretary informed the EC that construction of 200 porta cabins as hostels for boys and girls each with common facilities was already approved vide item No. EC:11:2014:13. Keeping in view the anticipated admissions the proportions were kept as 136 girls porta cabins and 64 boys porta cabins.

Waw:
3/7/14



Current session's overwhelming response to university admissions made the authorities rethink its earlier calculations for hostel requirements. Efforts were made to arrange hostel accommodation in the Constituent College of Punjabi University, Ghudda, NFL residential areas and in residential localities, but the outcome of the efforts did not give any results. As per the current session's new admissions taken and the available hostel space as on date, the expected shortfall for boy's hostel is 119 seats. The girl's hostel would suffice.

Keeping in view the remoteness of University location, economics involved, lack of adequate transport and mess facilities and access to academic facilities at the City Campus, most of the students submitted their desire for having hostel accommodation on campus. Thus, University proposed EC to consider construction of 60-65 porta cabins (twin share basis) that may accommodate expected number of students.

EC considered the shortfall of seats for the boys hostel accommodation and unanimously resolved to approve the construction of additional 60-65 porta cabin hostels for boys.

Item : 16:2015:19
Any other Item with the
permission of the Chair

No other item emerged during the meeting

Item : 16:2015:20
Fixing date of the next
meeting of the Executive
Council

The Council authorised the Vice Chancellor to fix the next meeting of the Executive Council.

The meeting ended with thanks to the Chair.

31/ATXV

Registrar (Secretary)

Proceedings Approved

Prof. R. K. Kohli

Vice Chancellor & Chairman Executive Council

Sir

Annexure 16-1

Please find enclosed e-mail received from M/s. EIL.

Regards

Praramjit



दलजीत सिंह Daljeet Singh

कार्यकारी अभियंता Executive Engineer,
केन्द्रीय विश्वविद्यालय, बठिंडा, पंजाब
Central University of Punjab, Bathinda
Mob: +919501019789, +919501016789.
E-mail: xencupb@gmail.com

----- Forwarded message -----

From: **Dwaipayan Mitra** <d.mitra@eil.co.in>

Date: 20 July 2015 at 11:52

Subject: RE: Reminder Regarding tender of Universal Engineers

To: Executive Engineer CUPB <xencupb@gmail.com>

cc: hp.cupb@gmail.com, sunil.dahiya@eil.co.in, nalin.kant@eil.co.in, registrar@cup.ac.in

Dear Sir,

With reference to your trailing mail, please note that the Award for Recommendation for Civil, Structural, Electrical, HVAC, Elevators and Other Developmental Works (Bidding Doc. No. KNM/ A372-200-CP-TN-7050/1002) was sent to CUPB for approval on 10.04.2015 which CUPB had approved on 10.04.2015.

However, as explained earlier that subsequent to Approval by CUPB for Award of Work, it was established that M/s Universal Contractors and Engineers Pvt. Ltd. have submitted false Completion Certificate in their proposal against some other tender floated by EIL.

Since, it was established that M/s Universal Contractors and Engineers Pvt. Ltd. have submitted false Completion Certificate, Concerned Department in EIL had initiated necessary action and it was finally decided to put the agency on "Negative List" of EIL Data Bank of Construction Contractors (refer attached letter dated 29.05.2015)

Further, it may be noted that the decision to annul the tender was taken after approval by Competent Authority in EIL looking into all legal aspects.

Just this clarifies.

Regards,

Dwaipayan Mitra

Engineer (Projects-07)

Engineers India Limited



Actions Taken on Executive Council Decisions during its 15th Meeting

Item No.	Decision in Brief	Action Taken
Item No. EC:15:15:1	The Council RESOLVED to approve the minutes of the 14 th Meeting of the EC held on 16.3.2015.	Noted.
Item No. EC:15:15:2	The Council RESOLVED to confirm the Action Taken Report on the decisions of 14 th EC meeting.	Noted.
Item No. EC:15:15:3	The members appreciated the progress made by the university and complemented on best research output in comparison to other Central Universities.	Noted.
Item No. EC:15:15:4	The Council RESOLVED to approve the guidelines for empanelment of advocates for representing and assisting Central University of Punjab, Bathinda before various Courts/ Tribunal, etc as proposed, for one year.	Guidelines adopted. Identifying and enlisting of senior advocates is under implementation.
Item No. EC:15:15:5	The Council RESOLVED to approve the appointment of the faculty positions as per proceedings of the selection committees of various Centres as proposed in the agenda.	Appointment letters to selected candidates issued.
Item No. EC:15:15:6	The Council RESOLVED to approve the appointment of Prof. H. M. Chawla as an Invited Professor.	Appointment letter issued vide No: CUPB/CC/15/EC/PF/1687 dated 11.7.2015
Item No. EC:15:15:7	The Council RESOLVED to approve the Qualification and Pay of the Nursing Staff as per the Guidelines of the Ministry of Health and Family Welfare as forwarded by UGC.	Adopted and to be followed by the University as and when recruitment for the post takes place.
Item No. EC:15:15:8	The Council RESOLVED to approve the implementation of policy for promotion of incumbent faculty from Assistant Professors to Associate Professors, Associate Professors to Professors, Assistant Librarians to Deputy Librarians etc. under CAS as notified and amended from time to time by the UGC and the same may be sent to the Visitor. FURTHER RESOLVED to adopt all such guidelines/regulations of UGC with regard to counting of past service for promotion or any such clauses or amendments related to service rules and promotion of the faculty and staff.	Resolve of Executive Council is notified vide No: CUPB/CC/15/EC-15/07 dated 10/07/2015
Items from 7th Meeting of Academic Council		
Item No. EC:15:15:9	The Council NOTED and RESOLVED to approve the status of applications received for admissions, as recommended by the Academic Council and go ahead with the admissions.	Implemented. Admission process ongoing. Status as per Item No: EC:16:2015:4I
Item No. EC:15:15:10	The Council RESOLVED to approve that the colour codes and specifications for convocation dress code be decided in consultation with faculty and students. It was FURTHER RESOLVED that the decision after consultation with the faculty and students will stand approved as such. It was left to the Vice-Chancellor to take a decision accordingly.	Under implementation



Item No.EC:15:15:11	The Council RESOLVED to approve the start of suggested short term courses under B.Voc programmes.	Implemented - courses started. Total 55 students are registered for Vermicomposting, Apiculture, Sericulture, Biofertilizers
Item No.EC:15:15:12	The Council RESOLVED to approve the proposed changes in the names of Centres and restart the Centre for Computational Sciences	Implemented and issued Notification No.CUPB/CC/15/00/484 dated 22.6.2015
Item No.EC:15:15:13	The Council RESOLVED to approve the community development programme in villages within a radius of say 25 km from the university.	Implemented. Students of adopted institutions have an access to the facilities of the university, academic exchange and guidance. Samples being collected from adopted villages. The university is in process of purchasing ICP-MS, required for the analysis of the water, soil, blood and food.
Item No EC:15:15:14	The Council, after brief discussion, RESOLVED to approve the proposed reconstitution of Internal Committee for holding public defence and viva-voce as recommended by Academic Council that in case the Dean Academic Affairs is not available to attend the public defence and viva-voce, the nominee deputed by him/her must be a Dean or a senior Professor of the university. The Council FURTHER RESOLVED that to conduct the public defence and viva-voce, presence of any three members from the recommended committee shall form the quorum.	Implemented
Item No EC:15:15:15	The Council considered the recommendations of Academic Council, and RESOLVED to approve the rules and regulations for trainees from other colleges/Universities	Under implementation
Item No EC:15:15:16	The Council RESOLVED to approve the change of course name in M.A. (Economics) as recommended by the Academic Council.	Implemented
Item No EC:15:15:17	The Council RESOLVED to approve the rules and regulations for M.A./M.Sc./M.Tech./M.Pharma/L.L.M./M.Ed./ Diploma programmes as recommended by the Academic Council.	Implemented
Item No EC:15:15:18	The Council RESOLVED to approve the establishment of Internal Quality Assurance Cell at the university, as recommended by the Academic Council.	Constituted vide No. CUPB/CC/15/ Notification/01 dated 3.7.2015
Item No EC:15:15:19	The Council RESOLVED to approve the policy for admission of international students. However, the guidelines of Supreme Court must be incorporated and ensure that same should not be violated at all.	An admission pamphlet related to international student's admission has been prepared and sent to embassies in Delhi.
Item No EC:15:15:20	The Council RESOLVED to approve establishment of Environment Auditing and Monitoring cell and reconstitution of Environment Groups, as recommended by the Academic Council in its seventh meeting.	Being notified
Item No EC:15:15:21	The Council RESOLVED to approve the establishment of International Collaboration Division at the university, as recommended by the Academic Council	One MoU has been signed with Department of Plant Sciences, University of Saskatchewan, Canada on 12.06.2015



Item No EC:15:15:22	The Council RESOLVED to approve the University-Industry Forum and Council, as recommended by the Academic Council vide its item No. AC:7:2015:17.	Under implementation
Item No EC:15:15:23	The Council RESOLVED to approve the policy on Students' Mobility as per recommendations of the Academic Council.	Under implementation
Item No. EC:15:15:24	The Council RESOLVED to approve the establishment of Academic and Administrative Committees in different Centres of CUPB, as recommended by the Academic Council.	Being notified
Item No. EC:15:15:25	The Council unanimously RESOLVED to approve the Policy On Curriculum Development as per the recommendations of the Academic Council.	Under implementation
Item No. EC:15:15:26	The Council RESOLVED to approve the proposed Policy for Academic Probation and Distinction at CUPB as per recommendations of Academic Council with amendment at point No, (iv) i.e. "The students who will remain on academic probation for more than two semesters will not be allowed to register for next semester till he/she improves CGPA and brings it to 4.0 by repeating the courses in which he/she has failed"	Under implementation
Item No EC:15:15:27	The Council unanimously RESOLVED to approve the proposed Policy for Research Awards and Incentives for State and National Level Recognition in Research with the amendments, as recommended by Academic Council.	Under implementation
Item No EC:15:15:28	The Council RESOLVED to approve the establishment of Academic Audit and Monitoring Cell, as recommended by Academic Council	Being notified
Item No EC:15:15:29	The Council, after discussion, RESOLVED to approve the guidelines for implementation of Consultancy Projects as per recommendations of Academic Council with amendment to the point No. 7	Under implementation
Item No LC:15:15:30	The Council RESOLVED to approve the Alumni Association of Central University of Punjab as recommended by the Academic Council.	Being notified
Item No EC:15:15:31	The Council RESOLVED to approve the proposed Policy for Self-Financing Departments as recommended by the Academic Council, with a small amendment in the title of item where the word "Department" should be replaced with "Centre".	Under implementation
Item No EC:15:15:32	The Council RESOLVED to approve the CUPB IT Policy as recommended by the Academic Council	The approved IT Policy has been adopted and been placed on the University website for the benefit of CUPB faculty, staff and students.
Item No EC:15:15:33	The Executive Council RESOLVED to approve the Guidelines for Submission and Implementation of Research Projects Funded by Outside Agencies as per the recommendations of the Academic Council with amendments	Being notified
Item No EC:15:15:34	The Council RESOLVED to approve the CUPB Policy On Dual Degree as per recommendations of the Academic Council	Under implementation
Item No. EC:15:15:35	The Council RESOLVED to approve the establishment of Competitive Examination Cell, as recommended by the Academic Council vide	Being notified
Item No.	The Council RESOLVED to approve the establishment of	Being notified



EC:15:15:36	Student Counselling Cell, as per recommendations of the Academic Council	
Item No. EC:15:15:37	The Council RESOLVED to approve the policy for grievance redressal of the employees and students, as per recommendations of the Academic Council	Being notified
Item No. EC:15:15:38	The Council RESOLVED to approve the Guidelines to Check Plagiarism in the university as proposed	Implemented
Item No. EC:15:15:39	The Council considered the recommendations of Academic Council and Finance Committee and after discussions, RESOLVED to approve the Students' Financial Assistance Fund and Education Loan Facility	The separate ledger accounts for Students Financial Assistance Fund are maintained and Payments will be made as and when sanction of the competent authority is received for payment.
Item No. EC:15:15:40	The Council, after discussions, considered the recommendations and RESOLVED to approve the constitution of IPR Cell as proposed and recommended by the Academic Council.	Being notified
Item No. EC:15:15:41	The Council RESOLVED to approve the creation of Placement Cells of the university as recommended by Academic Council vide item No. AC:7:2015:36.	Being notified
Item No. EC:15:15:42	The Council RESOLVED to approve the establishment of Human Rights Club as per recommendations of the Academic Council	Being notified
Item No. EC:15:15:43	The Council considered and RESOLVED to approve in principle the format of Feedback proforma as recommended by Academic Council. Also RESOLVED to revise the fine rates of library.	Implemented. Uploaded on university website.
Item No. EC:15:15:44	The Council considered and RESOLVED to approve the constitution of Internal Research Committee, as per recommendations of the Academic Council.	Being notified
Item No. EC:15:15:45	The Council considered the recommendations of Academic Council vide item No. AC:7:2015:40 and unanimously RESOLVED to approve the proposed Choice Based Credit System based on the guidelines of UGC on CBCS.	Implemented
Item No. EC:15:15:46	The Council, after deliberations, unanimously considered the recommendation of Academic Council and RESOLVED to approve the implementation of Earn While You Learn (EWYL) scheme by the university in the interest of the students.	Implemented
Item No. EC:15:15:47	The Council considered the recommendations of Academic Council and RESOLVED to approve the establishment of SC/ST and minorities cell as proposed.	Being notified
Item No. EC:15:15:48	The Council unanimously RESOLVED to approve the start of B.P.Ed. Programme and B.Ed.-M.Ed. integrated programme under the School of Education of the university as per recommendations of Academic Council.	Application for starting B.P.Ed. Programme submitted to NCTE vide Letter No. CUPB/CC/15/NCTE/984 dated 29.5.2015. Process of acquiring infrastructure and facilities is going on. Requirement of faculty posts has been sent to UGC vide letter no. CUPB/CC/15/UGC/1291 dated



		18.6.2015.
Items from Ninth Meeting of Finance Committee		
Item No. EC:15:15:49	<p>The Council RESOLVED to approve the recommendation of Finance Committee for the proposed fee structure. This will be applicable to the new admissions and not to the existing students of the university.</p> <p>FURTHER RESOLVED that in addition to the medical fee of Rs. 310 per annum, there will be an additional medical insurance for which the fee be charged from all students as per actual.</p>	<p>Implemented</p> <p>Implemented</p>
Item No. EC:15:15:50	The Council considered the recommendations of Finance Committee and RESOLVED to approve that the additional charge of Purchase Officer may be assigned to any faculty member or senior staff instead of creating a post for the same. The additional charge of Purchase Officer could even be assigned to more than one officer as per the requirement of work.	As per the resolve of the Executive Council Prof. S.K. Bawa has been appointed as Purchase Officer vide No: CUPB/CC/15/ Notification /476 dated: 19.06.2015
Item No. EC:15:15:51	The item No. EC:15:15:51, 52, 53, 54 and 55, being related to new campus were taken together.	Being implemented
Item No. EC:15:15:52	<p>After detailed deliberations, the recommendations of Finance Committee meeting held on 1.6.2015 were considered and it was RESOLVED to instruct EIL to expedite the process of construction, to which they promised. The target schedule for the tendering process submitted by EIL before the FC meeting was also considered and approved.</p>	
Item No. EC:15:15:53		
Item No. EC:15:15:54		
Item No. EC:15:15:55		
Item No. EC:15:15:56	<p>The Council considered the recommendations of FC and RESOLVED to approve the funds and terms and conditions for grant of financial assistance to students for session 2014-15.</p> <p>It was FURTHER RESOLVED that the fine charged from the library users for returning of book(s) to library even after 3 timely reminders after due date to be revised as Rs. 25 per day delay (first week) and Rs. 50 per day delay (2nd week), Rs. 75 per day delay (3rd week), Rs. 100 per day delay (4th week onwards). After delay of 1 month even after the reminders the students or the faculty will be debarred from issuing of books from the library till the book issued is returned or its cost as per rules is remitted and fine paid.</p>	<p>Adopted.</p> <p>Implemented</p>
Item No. EC:15:15:57	The Council considered the recommendations of FC and RESOLVED to approve the fee structure for international students admitted to PG/Ph.D. programmes of the university.	Fee structure implemented.
Item No. EC:15:15:58	<p>The Council RESOLVED to approve the re-constitution of Building Advisory Committee as per UGC guidelines, with suggested amendments.</p> <p>It was FURTHER RESOLVED that as recommended by FC the Vice Chancellor is authorized to co-opt any local expert(s) as he deems fit as a special invitee in the</p>	Being notified



	Building Advisory Committee of the university. The members suggested removing the word "local" from the above mentioned recommendation of FC, to increase viability in choosing experts.	
Item No. EC:15:15:59	The Council considered and RESOLVED to approve the action taken on Separate Audit Report of the university for the year 2009-14.	The action taken on SAR of the university for the year 2009-14 has been approved by the Executive Council. No further action is required to be taken.
Item No. EC:15:15:60	The Council considered the recommendations of FC and RESOLVED to approve the unaudited balance sheet of the university as on 31.3.2015, in anticipation of the audited balance sheet. In case there is substantial change in the audited statement, it be brought to the EC was also RESOLVED.	There is difference in figures of Provisional Balance Sheet and final Balance Sheet due to the following reasons : 1. Change in Depreciation rate in the new format circulated by MHRD. 2. Updation of 26AS at the site of Income Tax Department. Final Audited Balanced Sheet as on 31.03.2015 has been approved by the Finance Committee by circulation and audit of the same has also been conducted by the CAG. Draft separate audit report is awaited.
Item No. EC:15:15:61	The Council considered the recommendations of FC and unanimously RESOLVED to approve the Utilization of Funds during 2014-15.	The funds utilized during 2014-15 have been approved by Executive Council. No further action is required to be taken.
Item No. EC:15:15:62	The Council considered and RESOLVED to approve the Centre-wise budget policy for the year 2015-16 as recommended by the Finance Committee.	New Centres notified. Centre wise budget being worked out.
Item No. EC:15:15:63	Item withdrawn as it is Repeat of EC:15:15:39	--
Item No. EC:15:15:64	After due deliberations and as per the recommendations of FC, it was RESOLVED to approve the sanction of funds from university grants to the Principal Investigator as advance and reimbursement of the same on receipt of the grant from funding agency.	Implemented.
Item No. EC:15:15:65	The Council NOTED the progress of the overall construction of building projects given at Annexure-XXXXVII.	No action required.
Item No. EC:15:15:66 Current Agenda, if any		
Item No. EC:15:15:66.1	The Council considered the recommendations of the Academic Council and RESOLVED to approve the proceedings of meeting of committee to frame guidelines for admission to Ph.D. programme during academic session 2015-16.	Guidelines for admission to Ph.D. programme during academic session 2015-16 implemented.
Item No. EC:15:15:66.2	The Council RESOLVED to approve the proceedings of the selection committee for the positions of Registrar and Controller of Examinations, as proposed.	As resolved by the Executive Council appointment letter were issued in favour of Dr.

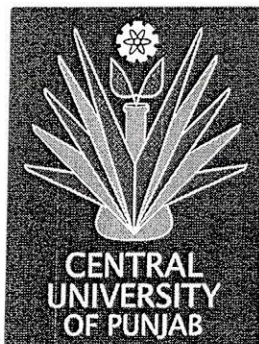


		<p>Pankaj Khare for the post of Registrar and Prof. Jagdeep Singh for the post of Controller of Examination (COE).</p> <p>Dr. Pankaj Khare joined the post of Registrar on 13/06/2015 and the same was notified vide No: CUPB/CC/PF/15/203 dated 18/06/2015</p> <p>Prof. Jagdeep Singh Khare joined the post of COE on 05/06/2015 and the same was notified vide No: CUPB/CC/PF/15/198 dated 10/06/2015</p>	
Item EC:15:15:66.3	No.	<p>During discussion the EC members unanimously suggested to the VC to withdraw this item and let the candidates join their respective posts, and after that the case may be represented to MHRD.</p> <p>After detailed deliberations, the Chairman withdrew this item, as there is no need for amendment in the ordinances. It was RESOLVED to authorize the Vice Chancellor to take the executive decision. It was also decided that after the incumbents join the university, their representation be sent to MHRD for concurrence of the executive decision.</p>	<p>No action required, as Item withdrawn.</p>
Item EC:15:15:66.4	No.	<p>The Council RESOLVED to approve the proposed Cadre Recruitment Rules (CRRs) for Non-Teaching positions.</p>	<p>The approved Cadre Recruitment Rules (CRR) of CUP was sent to UGC, vide letter No: CIJPR/CC/15/RQ-115/1301 dated 19/06/2015, for their concurrence.</p>
Item EC:15:15:66.5	No.	<p>This item was taken up under Item No. EC:15:15:66.3. As that item was withdrawn by the Chairman, this item also stood withdrawn.</p>	<p>No action required, as Item withdrawn.</p>
Item EC:15:15:66.6	No.	<p>RESOLVED as follows:</p> <ol style="list-style-type: none"> Allow/authorize the VC to re-appoint on contract as per need the faculty of existing terms and conditions for another semester or till the faculty on regular basis joins the university whichever is earlier. Allow/authorize the Vice Chancellor to re-appoint the non-teaching staff in various branches on contractual basis on existing terms and conditions for another 89 days or till a person on regular basis joins, whichever is earlier. Initiate the process of outsourcing the work to external agency as per advice of FC. 	<p>Reappointment letters issued in favour of Teaching and Non Teaching Staff. Further as directed a committee have been constituted vide No: CUPB/CC/15/00/188 dated 29/06/2015 to give its recommendations in line with the directions of the Finance Committee</p>
Item EC:15:15:66.7	No.	<p>The Council RESOLVED to approve the implementation of Provisions of Employee Provident Fund Scheme for the contractual employees of the university, as per the prescribed rules.</p>	<p>The resolve of the Executive Council is implemented and notified vide No: CUPB/CC/15/EC-15/06 dated 10/07/2015</p>



Item EC:15:15:66.8	No.	The Council RESOLVED to approve the appointment of Dr. J. S. Bilga as Landscape Consultant as per the terms and conditions of the university on a fixed monthly salary of Rs. 60,000/- pm initially for a period of one year.	As resolved by the Executive Council appointment letter were issued in favour Dr. J. S. Bilga for the post of Landscape Consultant as per the terms and conditions of the university on a fixed monthly salary of Rs. 60,000/- pm initially for a period of one year Dr. J. S. Bilga joined the post of Landscape Consultant on 05/06/2015 and the same was notified vide No: CUPB/CC/PF/15/186 dated 08/06/2015
Item EC:15:15:66.9	No.	The Council RESOLVED to approve the appointment of non-teaching staff through outsourcing agency as recommended by the Finance Committee. It was further RESOLVED that after the appointment of contractual staff through outsourcing agency, the increase of salary be dealt by the concerned outsourcing agency as per Central Govt. Daily Wage Rates instead Punjab Govt./DC Rates.	As resolved by the Executive Council a committee have been constituted vide No: CUPB/CC/15/00/188 dated 29/06/2015 to give its recommendations in line with the directions of the Finance Committee
Item EC:15:15:66.10	No.	The Council RESOLVED to approve the reservation roster for the faculty as proposed.	Information was noted by the members and no further action is required to be taken on the mater
Item EC:15:15:67	No.	No other item emerged during the meeting	--
Item EC:15:15:68	No.	The Council authorised the Vice Chancellor to fix the next meeting of the Executive Council.	--

Progress Report
16th Meeting of Executive Council



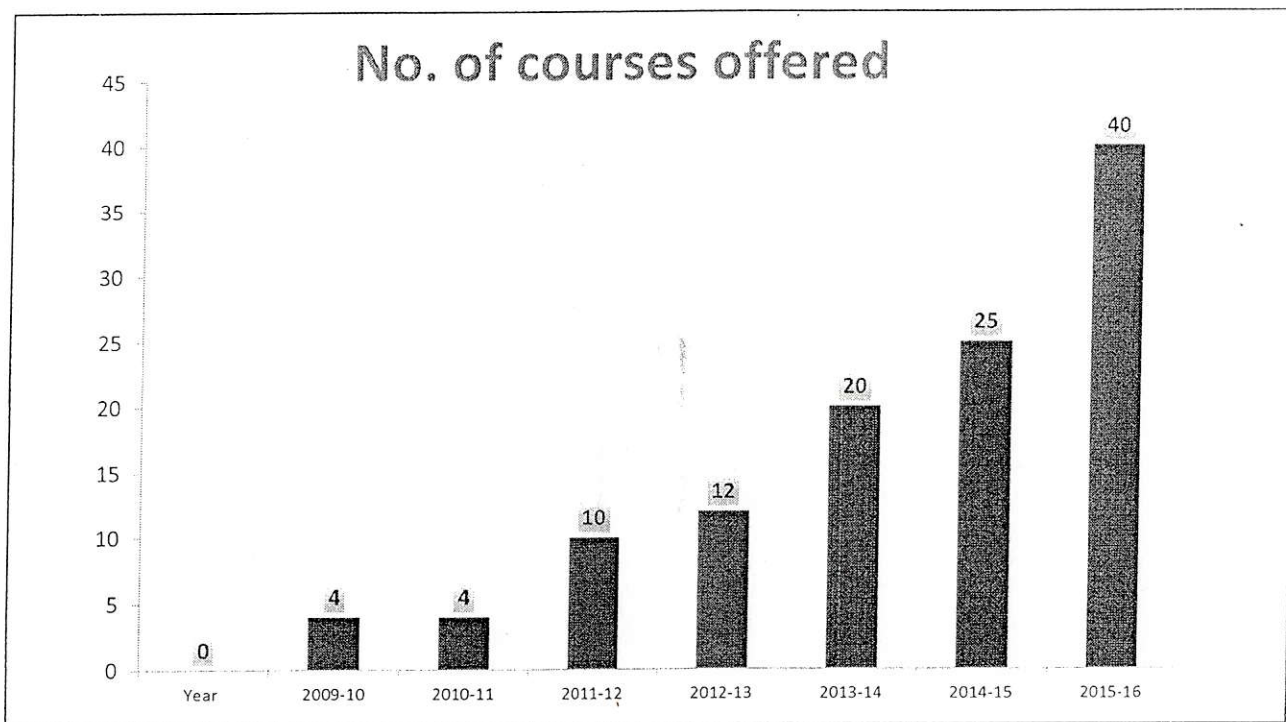
(Period: June 3 to July 25, 2015)
at ICSSR Complex, Panjab University, Chandigarh
on July 25, 2015

Joining of Registrar and Controller of Examinations

Dr. Pankaj Khare joined as Registrar on 13th June 2015

Dr. Jagdeep Singh joined as Controller of Examination on 5th June 2015

Sh S.K. Jindal who had joined OSD (Finance) on 30-3-15
Left on 5-7-15 because of health issues of his wife.



Ph.D. Programmes – Session 2015-16

Offering Ph.D. programmes in the following Centres from academic session 2015-16:

1. Animal Sciences
2. Biochemistry
3. Bioinformatics
4. Chemical Sciences
5. Classical & Modern languages (English)
6. Classical & Modern languages (Punjabi)
7. Computational Sciences
8. Environment Science & Technology
9. Genetic Diseases & Molecular medicine
10. Geography
11. Geology
12. Human Genetics
13. Law
14. Mathematics and Statistics
15. Microbial Sciences
16. Pharmaceutical Sciences & Natural products
17. Physical Sciences
18. Plant Sciences

40 PG & Research programmes offered in Academic Session 2015-2016

Sr. No.	Degree	Name of the Programme*	Seats*
1	M.Sc.	Life Sciences with specialization in Plant Sciences	15
2	M.Sc.	Life Sciences with specialization in Animal Sciences	15
3	M.Sc.	Life Sciences with specialization in Microbial Sciences	15
4	M.Sc.	Life Sciences with specialization in Biochemistry	15
5	M.Sc.	Life Sciences with specialization in Human Genetics	15
6	M.Sc.	Life Sciences with specialization in Molecular Medicine	15
7	M.Sc.	Life Sciences with specialization in Bioinformatics	15
8	M.Pharm.	Pharmaceutical Sciences (Medicinal Chemistry)	18
9	M.Pharm.	Pharmaceutical Sciences (Pharmacognosy and Phytochemistry)	18
10	M.Sc.	Chemical Sciences (specialization in Medicinal/Organic/ Inorganic/ Physical Chemistry)	15
11	PG Dipl	Translational Biomedical Research	40
12	M.Sc.	Physics	15
13	M.Sc.	Mathematics	15
14	M.Sc.	Statistics	15
15	M.Sc.	Computational Sciences	15
16	M.Sc.	Environment Science and Technology	15
17	M.Phil.	South and Central Asian Studies	15
18	MA/M.Sc	Geography	15
19	M.A.	Political Science	15
20	M.A.	History	15

Contd.

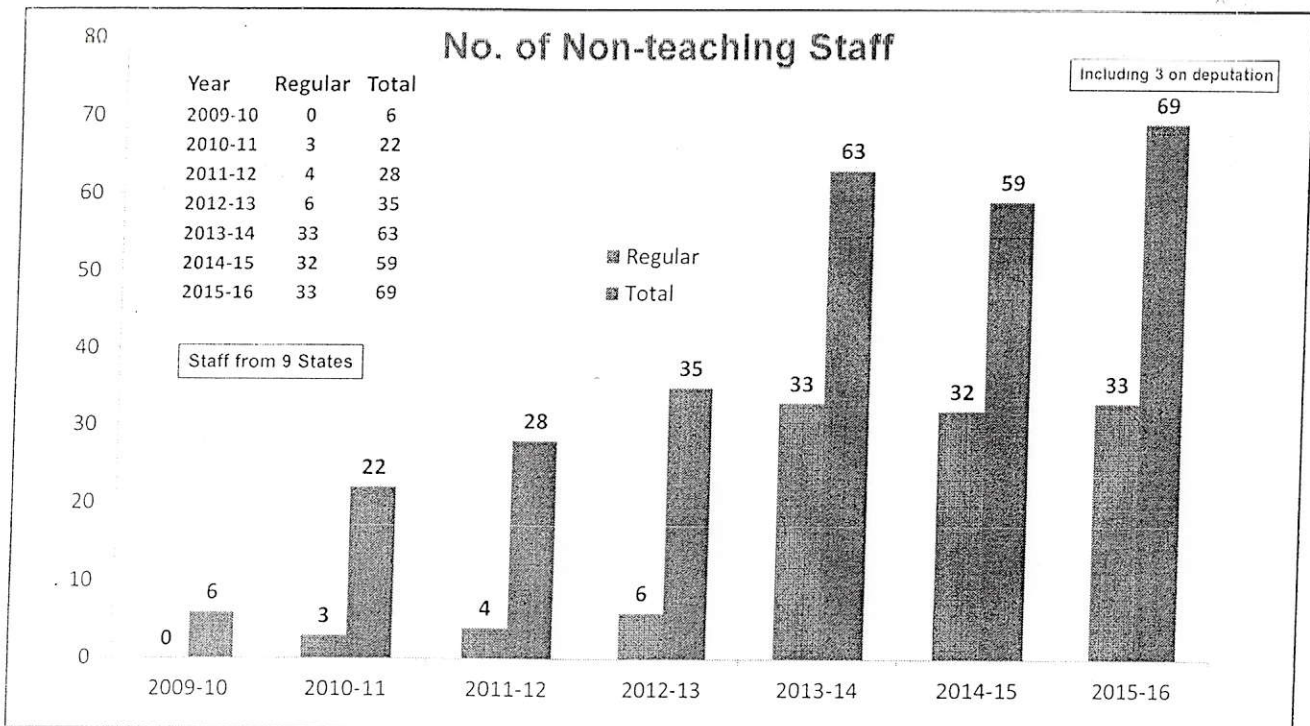
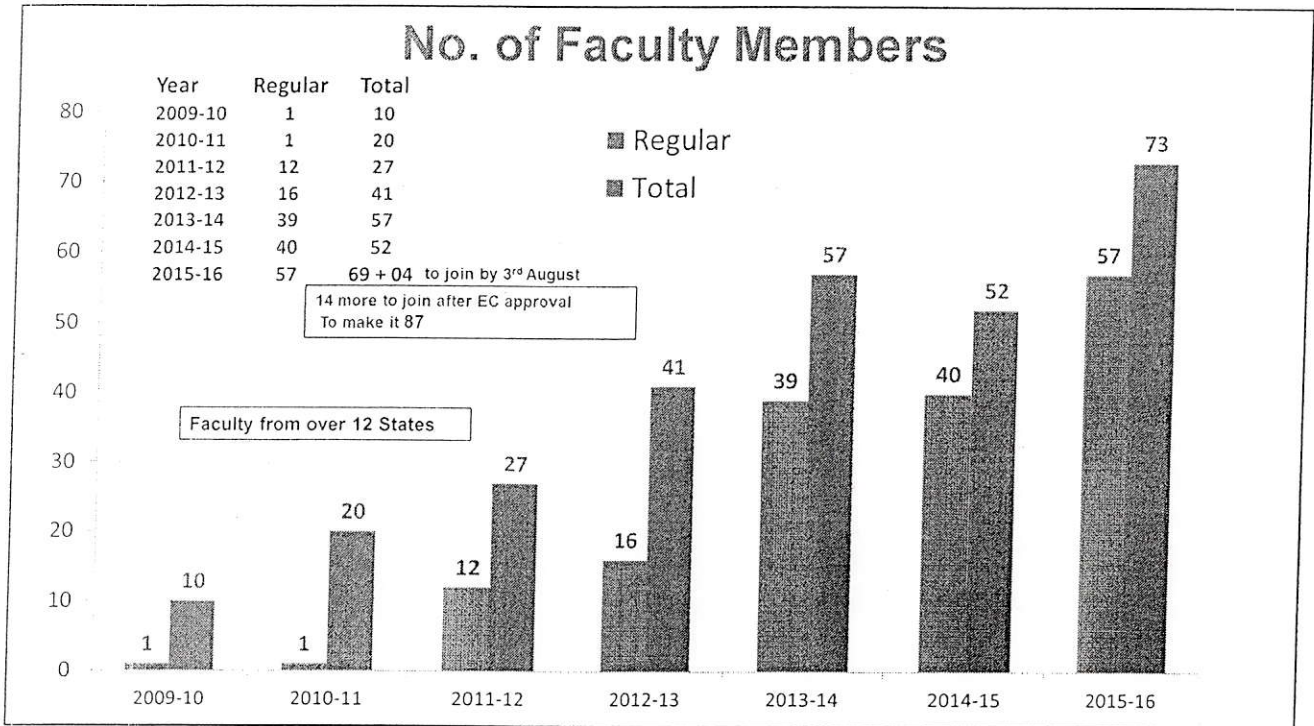
Sr. No.	Degree	Name of the Programme*	Seats*
21	M.A.	Sociology	15
22	M.Phil.	Comparative Literature	15
23	M.A.	English (Comparative Literature and Translation)	15
24	M.A.	Punjabi	15
25	M.Phil.	Economics	15
26	M.A.	Economics	15
27	LL.M.	LL.M. (Environment Law/Human Rights/ Corporate Law)	15
28	M.Tech.	Computer Science and Technology	24
29	M.Tech.	Computer Science and Technology (Cyber Security)	15
30	M.Ed.	Education	50
31	M.A.	Education	15
32	PG Diploma	Museology, Archaeology and Conservation	15
33	M.A.	Hindi	15
34	M.A.	Philosophy	15
35	M.Sc.	Earth and Geological Sciences	15
36	M.Sc.	Sports Science	15
37	M.A.	Music (Vocal)	15
38	M.A.	Music (Instrumental)	15
39	M.A.	Fine Arts	15
40	M.A.	Theatre	15
		Total Seats	675

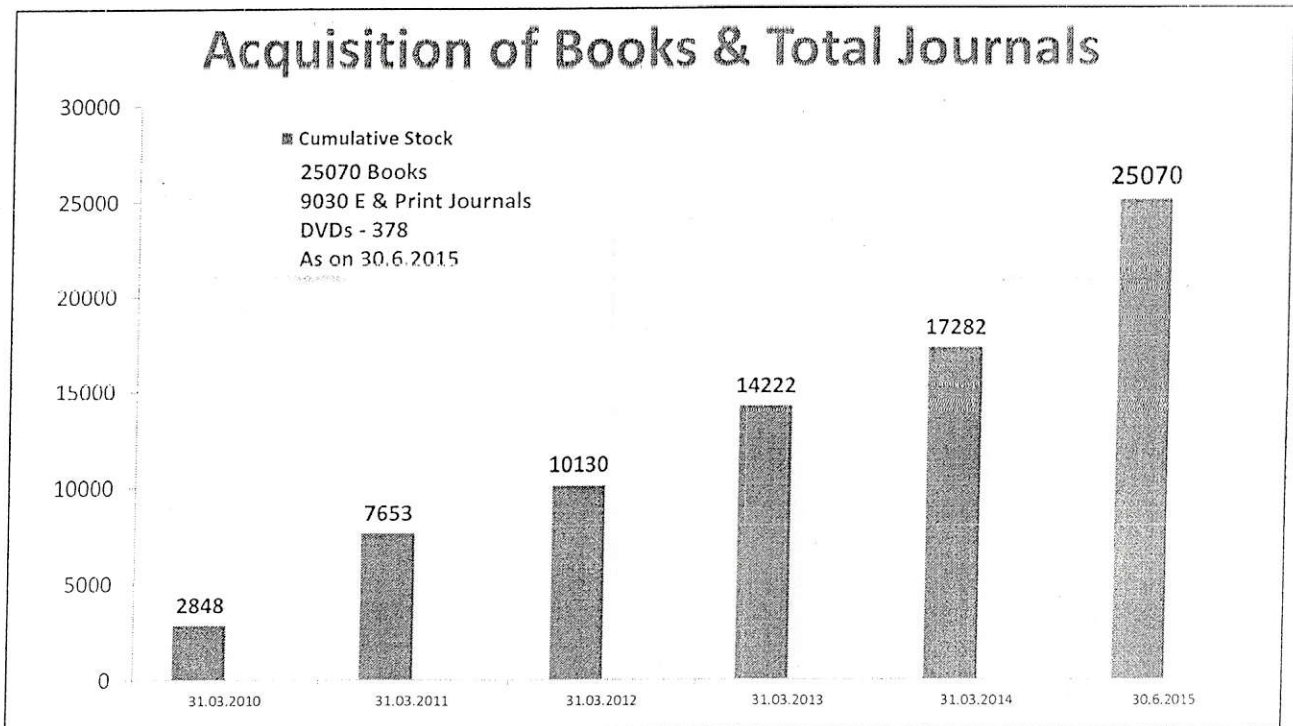
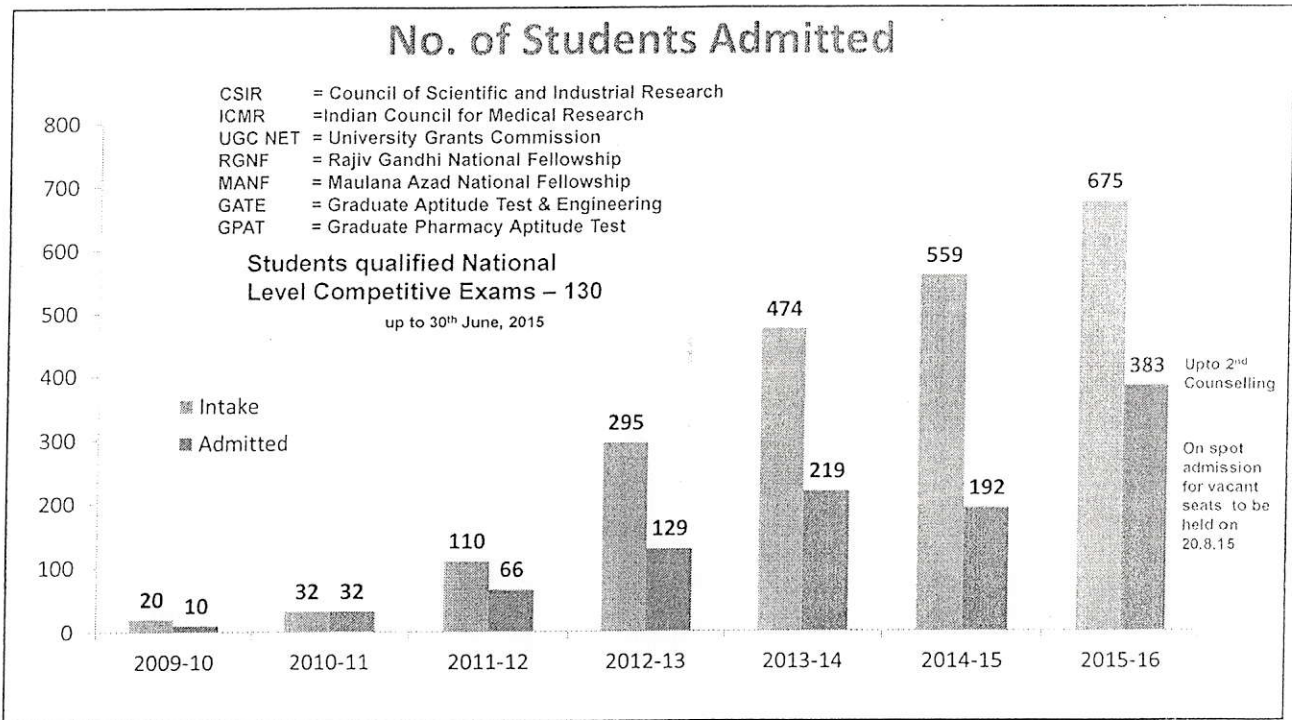
Status of Admissions after 2nd Counselling – 2015-16

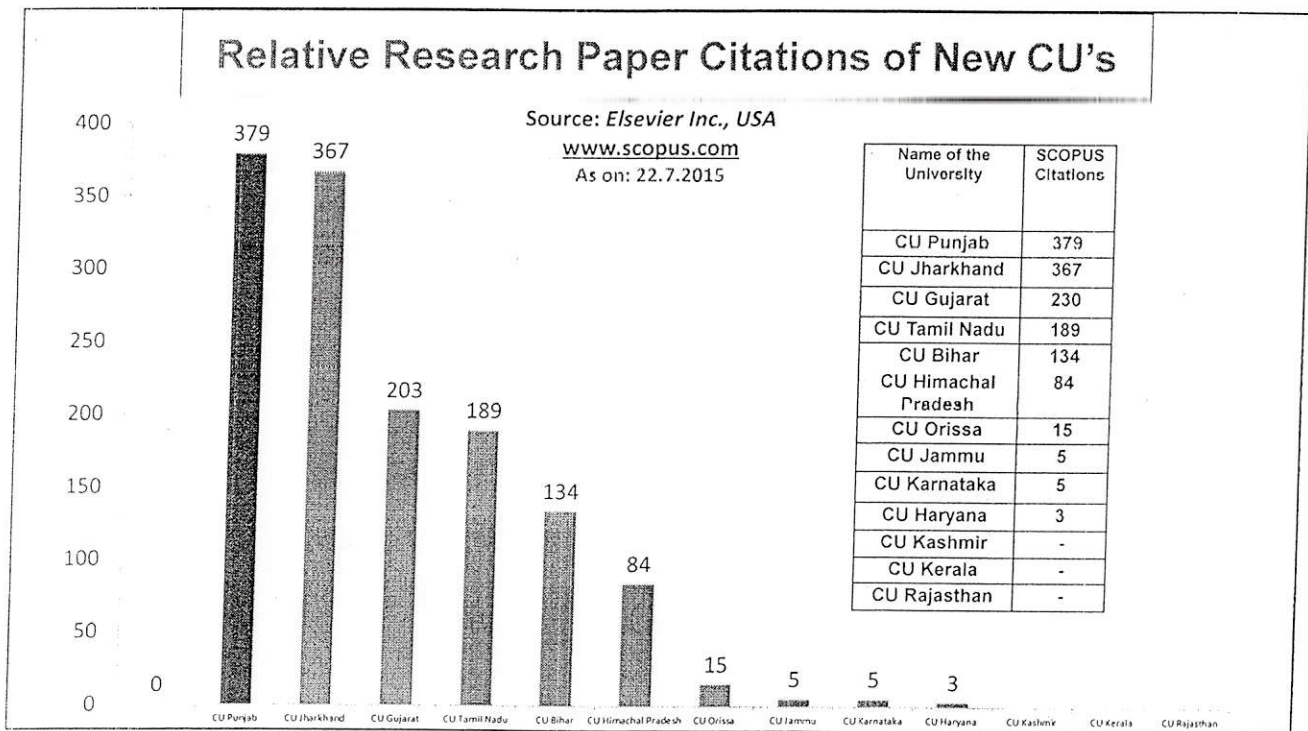
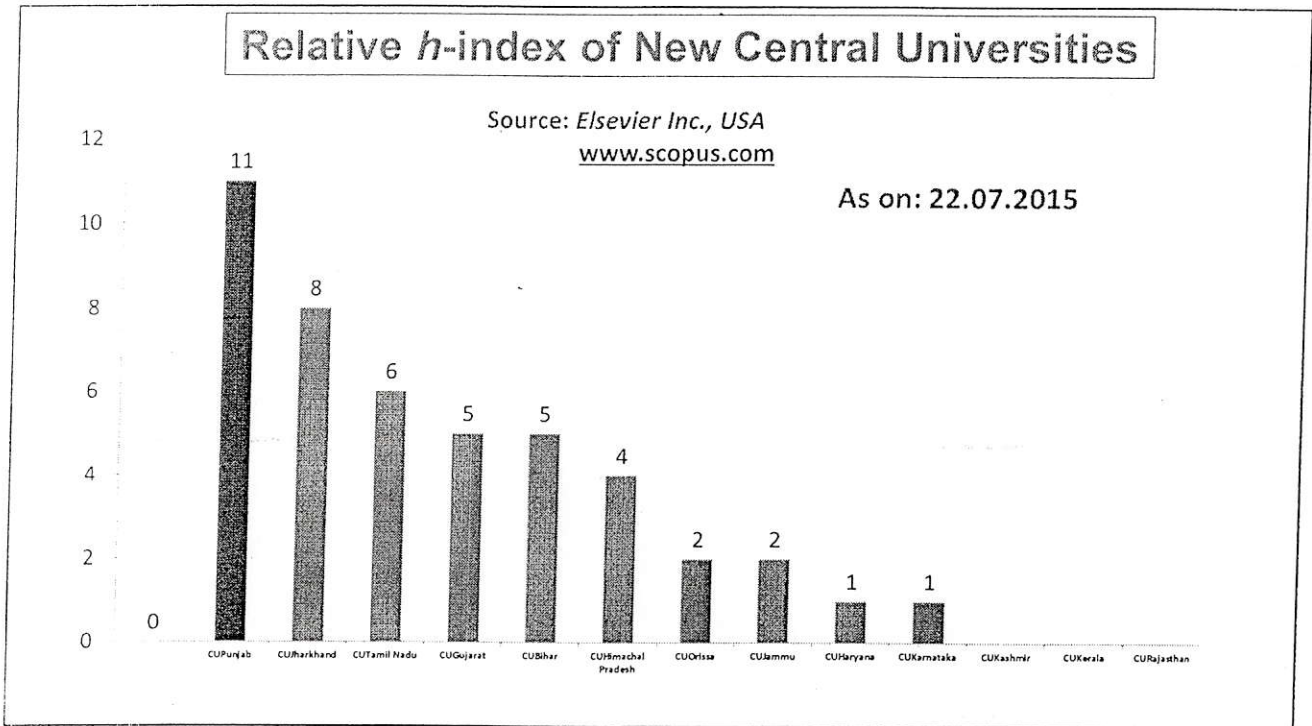
S.No.	Name of the Programme	Seats	Total Filled	Total Vacant	
1	Plant Sciences	15	13	2	
2	Animal Sciences	15	15	0	
3	Microbial Sciences	15	9	6	
4	M.Sc. Life Sciences	Biochemistry	15	14	1
5		Human Genetics	15	13	2
6		Molecular Medicine	15	14	1
7		Bioinformatics	15	13	2
8	M.Sc. Environment Science and Technology	15	13	2	
9	M.Sc. Chemistry	Medicinal Chemistry	15	15	0
10		Organic /Inorganic / Physical /Computational	20	18	2
11	M.Sc. Physics	Nanophysics/Computational Physics	20	20	0
12	M.Sc. Mathematics		15	15	0
13	M.Sc. Statistics		15	11	4
14	M.Pharma	Medicinal Chemistry	18	10	8
15	M.Tech. Computer Science & Technology	Computer Science	24	24	0
		Cyber Security	15	11	4

S.No.	Name of the Programme	Seats	Total Filled	Total Vacant	
16	M.Phil. Comparative Literature	15	15	0	
17	M.Phil. South and Central Asian Studies	15	15	0	
18	M.Phil. Economics	15	15	0	
19	M.A./M.Sc. Geography	15	15	0	
20	M.A. Political Science	15	9	6	
21	M.A. Sociology	15	8	7	
22	M.A. English	Comparative Literature and Translation	15	10	5
23	M.A. Economics		15	11	4
24	LL.M.		15	12	3
25	M.Ed.		50	21	29
26	M.A. Education		15	6	9
27	M.Sc. Earth and Geological Sciences		15	5	10
28	M.A. History		15	5	10
29	M.A. Punjabi		15	2	13
Grand Total		507	377	130	

* Total admitted were **383** including 6 Candidates who shifted their courses in second counselling.







Relative Ranking Impact Points of New Central Universities of India as per Research Gate, USA

As on 24.07.2015

Sr. No.	Name of The University	Institutions ranking in India (as per RG Score)	RG SCORE
1.	Central University of Punjab	205	1020.06
2.	Central University of Rajasthan	216	995.26
3.	Central University of Jharkhand	366	505.74
4.	Central University of Bihar	464	350.79
5.	Central University of Kerala	468	348.04
6.	Central University of Tamil Nadu	534	290.87
7.	Central University of Gujarat	585	258.58
8.	Central University of Himachal Pradesh	628	227.38
9.	Central University of Karnataka	1013	107.63
10.	Central University of Haryana	1845	38.86
11.	Central University of Kashmir	2578	20.96
12.	Central University of Jammu	2849	15.71
13.	Central University of Orissa		

The RG Score measures reputation and impact based on how a researcher's work is received by their peers. This list shows institutions by the sum of the RG Scores of their individual members using ResearchGate

Relative Ranking Impact Points of New Central Universities of India as per Research Gate, USA

As on 24.07.2015

Sr. No.	Name of The University	Institutions ranking in India (as per Impact point)	Total Impact Points
1	Central University of Punjab	277	401.69
2	Central University of Bihar	621	102.04
3	Central University of Kashmir	742	76.31
4	Central University of Rajasthan	1260	26.01
5	Central University of Gujarat	1474	17.94
6	Central University of Tamil Nadu	1520	16.81
7	Central University of Jharkhand	2053	7.74
8	Central University of Himachal Pradesh	2185	6.18
9	Central University of Kerala	2652	3.09
10	Central University of Karnataka	2950	2.00
11	Central University of Haryana		
12	Central University of Jammu		
13	Central University of Orissa		

Impact Points are calculated based on which journals a researcher has been published in. This list shows institutions based on the sum of the impact points of publications attributed to them

Relative Ranking Impact Points of New Central Universities of India as per Research Gate, USA

As on 22.05.2015

As on 22.07.2015

Rank	Institutions Ranking in India	Name of the University	Total Impact Pts
1	273	Central University of Punjab	389.27
2	608	Central University of Bihar	101.94
3	741	Central University of Kashmir	73.65
4	1330	Central University of Rajasthan	22.07
5	1504	Central University of Gujarat	16.65
6	1511	Central University of Tamil Nadu	16.47
7	2030	Central University of Jharkhand	7.74
8	2150	Central University of Himachal Pradesh	6.18
9	2620	Central University of Kerala	3.09
10	2909	Central University of Karnataka	2
11	-	Central University of Haryana	-
12	-	Central University of Jammu	-
13	-	Central University of Orissa	-

Rank	Institutions ranking in India	Name of the University	Total Impact Points
1	277	Central University of Punjab	401.69
2	621	Central University of Bihar	102.04
3	742	Central University of Kashmir	76.31
4	1260	Central University of Rajasthan	26.01
5	1474	Central University of Gujarat	17.94
6	1520	Central University of Tamil Nadu	16.81
7	2053	Central University of Jharkhand	7.74
8	2185	Central University of Himachal Pradesh	6.18
9	2652	Central University of Kerala	3.09
10	2950	Central University of Karnataka	2
11		Central University of Haryana	
12		Central University of Jammu	
13		Central University of Orissa	

Impact Points are calculated based on the quality of journals in which the paper has been published. This list shows institutions based on the sum of the impact points of publications attributed to them.

Interviews conducted (after 02.8.2015)

Teaching: Faculty positions

Date	Name of Centre	Interviews for the Post of
July 6	Genetic Diseases and Molecular Medicine	Professor & Asst. Professor
July 11	Human Genetics	Asst. Professor
July 12 & 13	Sociology	Asst. Professor
July 17	Geography	Asst. Professor
July 18	Computer Science and Technology	Professor, Associate & Asst. Professor
July 20	Pharmaceutical Sciences	Associate & Asst. Professor
July 21	South & Central Asian Studies (History)	Associate & Asst. Professor
July 22	South & Central Asian Studies (Political Sciences)	Assist. Professors

Non-teaching/staff positions

Non-teaching positions will be filled on receipt of concurrence about the Cadre Recruitment Rules from UGC

Faculty/Non-teaching Joined since last meeting of Executive Council held on 2nd June 2015

- Non-teaching joined:
- Dr. Pankaj Khare joined as Registrar on 13th June 2015
 - Dr. Jagdeep Singh, Controller of Examinations on 5th June 2015

Faculty Joined:

S. No.	Name	Designation	Centre	Date of Joining
1	Dr. Rakesh Kumar	Asst. Prof.		13.7.2015
2	Dr. Krishna Kanta Haldar	Asst. Prof.	Chemical Sciences	13.7.2015
3	Dr. Rajendra Singh Dhayal	Asst. Prof.		13.7.2015
4	Dr. J. Nagendra Babu	Asst. Prof.		13.7.2015
5	Dr. Sachin Kumar	Asst. Prof.		13.7.2015
6	Dr. Akhlad Iqbal	Asst. Prof.	Mathematics and Statistics	16.7.2015
7	Dr. Anoop Kumar	Asst. Prof.		13.7.2015
8	Dr. Jyoti Parkash	Asst. Prof.		13.7.2015
9	Dr. Ajay Kumar	Asst. Prof.	Animal Sciences	13.7.2015
10	Dr. Pabitra Kumar Mishra	Assoc. Prof.		13.7.2015
11	Dr. Jainendra Kumar Verma	Asst. Prof.	Economic Studies	13.7.2015
12	Dr. Tarun Arora	Assoc. Prof.		13.7.2015
13	Dr. Sukhwinder Kaur	Asst. Prof.	Law	13.7.2015
14	Dr. Akhank Jain	Asst. Prof.		13.7.2015
15	Dr. Shashank Kumar	Asst. Prof.	Biochemistry & Microbial Sciences	13.7.2015
16	Dr. Ashok Kumar	Asst. Prof.	Physical Sciences	13.7.2015
17	Dr. Alpna Saini	Assoc. Prof.	Classical and Modern Languages (English)	13.7.2015
18	Dr. Sesadeba Pany	Asst. Prof.	Education	17.7.2015

Community College

The UGC has approved the “*Diploma in Green Farming Technologies*” under this scheme, vide Sr. No. 81 of UGC notification and also approved the grant of Rs. 65.96 lakhs vide letter D.O. No. F.1-81/2015 (CC) dated 11.6.2015

- Starting the Diploma Course w.e.f. the coming session 2015-16
- Advertisement has been placed on university website

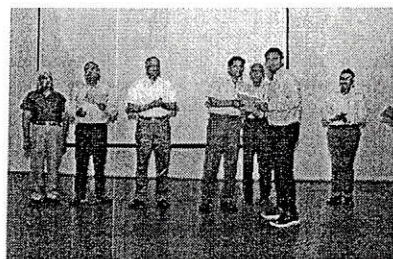
Completion of 1st Batch of Certificate Course in Human Rights & Duties

To disseminate the human rights awareness in the society, the Central University of Punjab has started a Certificate Course in Human Rights and Duties under UGC Scheme (Human Rights Education)

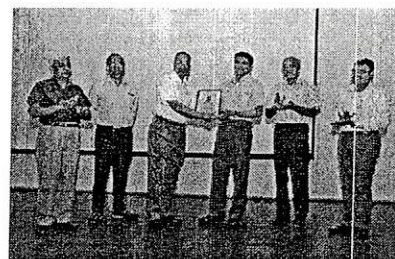
- On completion of First Batch (Feb- May, 2015) of Certificate Course in Human Rights and Duties sponsored by University Grants Commission (UGC), a valedictory function was organized to distribute certificates and DMCs for the participants.
- Chief Guest on the occasion was renowned international jurist Prof. Dr. Bharat H. Desai, Professor of International Law, Jawahar Lal Nehru University (JNU), New Delhi



Prof. Bharat Desai during the lecture



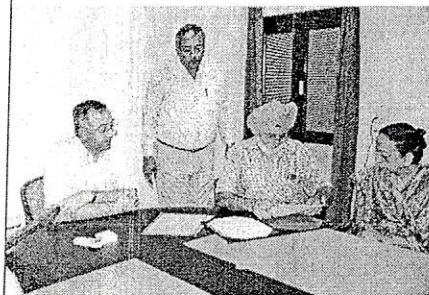
Distribution of certificates



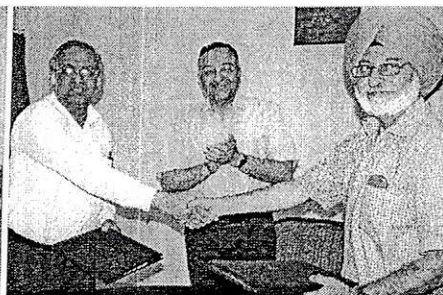
Vice Chancellor felicitating Prof. Desai

MoU with Center for Rural Research and Industrial Development, Chandigarh (CRRID)

Memorandum of Understanding (MoU) was signed with the Central for Rural Research and Industrial Development, (CRRID), Chandigarh on 26.6.15 (Friday)



CUPB authorities and CRRID officials during signing of MOU.



Moments during exchanging of MOU's.



Hon'ble Vice Chancellor with CRRID officials

MoU with Department of Plant Sciences, University of Saskatchewan, Canada

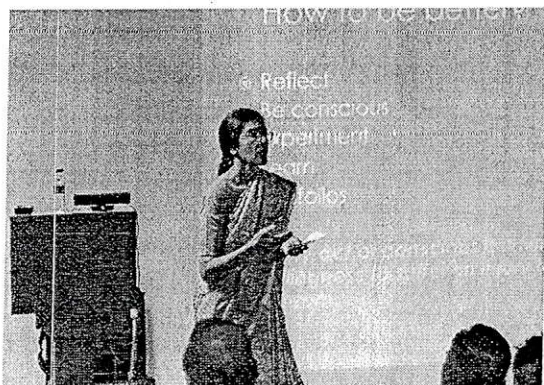
Memorandum of Understanding (MoU) signed with **Department of Plant Sciences, University of Saskatchewan, Canada** for promoting mutual cooperation in the areas of research and education covering genomics and biotechnology, on **12th June 2015 (Friday)**

Prof. Rabindra N. Chibbar, Canada Research Chair, Crop Quality, Department of Plant Sciences, University of Saskatchewan, Canada visited the Central University of Punjab. He delivered a lecture and visited university labs and other facilities, followed by an interaction with the Vice-Chancellor, faculty, and students.

Prof. R. K. Behl, from HAU aluminous also delivered a special lecture on June 12, 2015.

Guest Lecture

Centre for Education organised a lecture on June 10, 2015 by **Dr. Jayanti Dutta**, Deputy Director, Academic Staff College Panjab University Chandigarh. The theme of the lecture was **“How We Teach and How We Should Teach”** In this lecture Dr. Dutta discusses the principles and methods of good teaching.



Dr. Jayanti Dutta during the lecture



Vice Chancellor facilitating Dr. Jayanti Dutta

Celebration: International Day against Drug Abuse & Illicit Trafficking

The university commemorated International Day against Drug Abuse and Illicit Trafficking on June 26, 2015. The theme apropos it for the year of 2015 is *Let us Develop - Our Lives, Our Communities, Our Identities Without Drugs*. Documentaries on Illicit Trafficking and Drug Abuse were also shown during the event. Prof. R.K. Kohli, Vice-Chancellor, made an appeal to all the participants to treat drug addicts as patients instead of criminals. A pledge was also administered by faculty and students affirming to stay away from drugs and sensitisation of the stakeholders. Dr. Pankaj Khare, Registrar, and Senior Professors were also present.



Vice Chancellor sharing his views on the issue

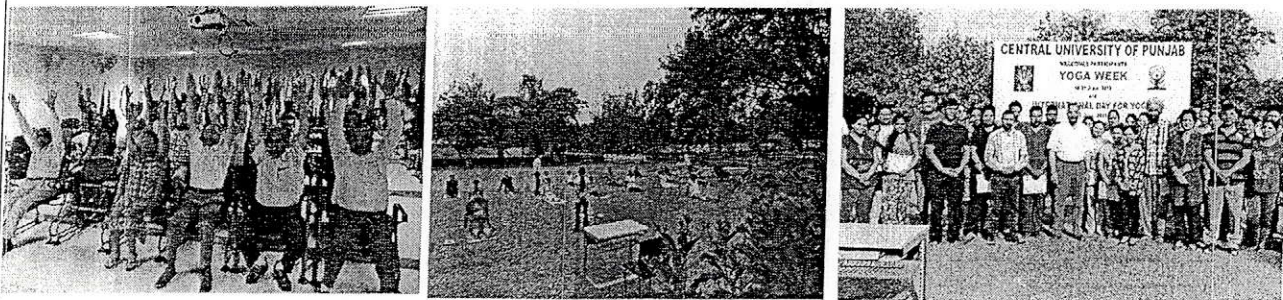


Pledge ceremony

International Yoga Week

15th - 21st July 2015

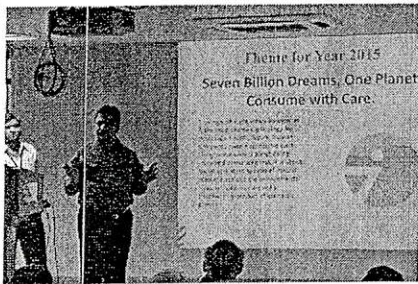
Continuing its momentum towards excellence, the Central University of Punjab, Bathinda inaugurated its International Yoga Week in its city campus from July 15 to July 21, 2015. The purpose of this celebration is to give a time to its stakeholder an opportunity of unionizing with oneself. Prof. R.K. Kohli, the Vice Chancellor urged the gathering to spare some time for oneself. Commenting upon the modern life style involving cut throat competition, Prof. Kohli encouraged students to be health conscious and build strong fitness. Mr. V. V. Shukla and Ms. Nisha Sharma from Yoga B.Ed. College, Chandigarh were the trainers for Yoga.



Glimpses of the Yoga Week at Central University of Punjab

World Environment Day

Leaping to sensitize and remind various stakeholders, students, research scholars, industrialists, farmers and NGOs, Central University of Punjab celebrated "World Environment Day" in its city campus on 5th June 2015. Er. Anil K. Singla, was the *keynote* Speaker on the event. The event witnessed exchange thought provoking ideas drawn out of extensive research on the issues of air, water and soil pollution as well. The university has a mission to contribute in the field of environment protection and improvement of the status of health of residents of Malwa region which is badly affected due to contamination of water and soil. The event was presided over by Prof. P. Ramarao, Dean, Academics.



A glimpse from the lecture

Massive Plantation Drive

To create awareness towards environment and its importance, Central University of Punjab organised a "Massive Plantation Drive" with an aim to plant 20,000 saplings in the forthcoming new campus at Ghudda from 19th July 2015 (Sunday) under the keen guidance and seasoned expertise of our Hon'ble Vice Chancellor Prof. R. K. Kohli. Dr. Basant Garg, Deputy Commissioner Bathinda lead the campaign along with Shri S.K. Tiwari, Divisional Forest Officer Bathinda, Shri A.K Dabral, Deputy Commandant National Disaster Response Force (NDRF), Er. Rupinder S. Sekhon GM, Verka Milk plant. All faculty, students and non-teaching staff of the university and a team from (NDRF) practically participated in this noble cause.



Dr. Basant Garg, DC, Bathinda, during plantation drive



Prof. R.K. Kohli, Vice Chancellor, during plantation drive



Shri S.K. Tiwari, District Forest Officer during plantation drive

Artists/Innovation Scholars In-Residence Programmes

Dr. Felix Bast (Biosciences) Inspired faculty of Central University, Punjab was nominated to attend the "In-Residence Program" held during June 6-12, 2015 at Rashtrapati Bhawan, New Delhi. Inspired teachers from 30 universities also met Hon'ble Minister of HRD, Vice-Chairman UGC, Vice Chairperson NITI-Ayog, representatives from Intel, Microsoft, IBM, CII, ASSOCHAM and FICCI.



Dr. Felix Bast with His Excellency, The President of India

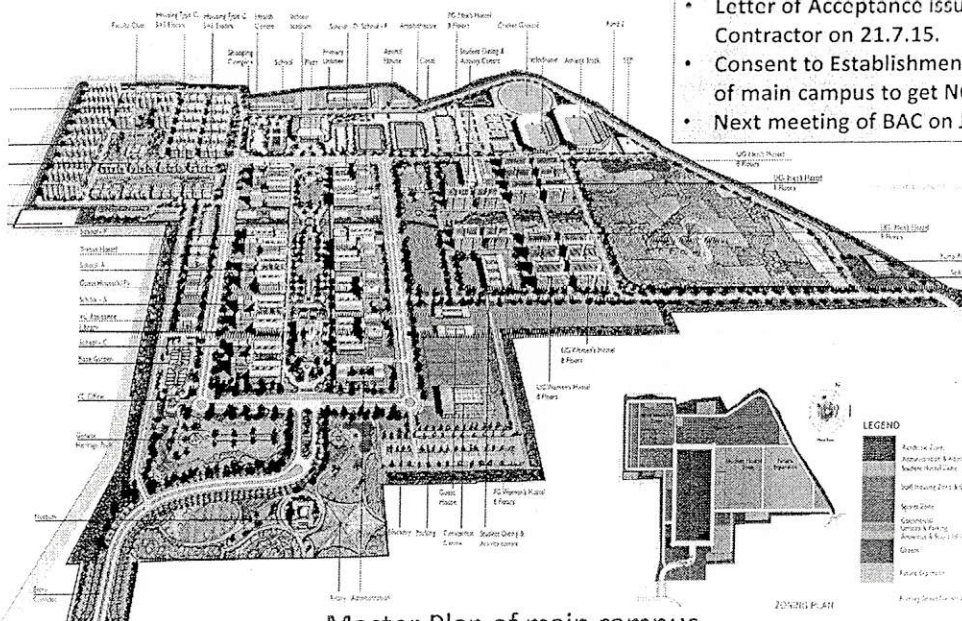
E-Journals of University Library

Names of the Publisher	URL	No of Titles
American Chemical Society	http://pubs.acs.org/	37
American Institute of Physics	http://www.inflibnet.ac.in/econ/publishersej.php?publisher=R2	19
American Physical Society	http://publish.aps.org/browse.html	10
Annual Reviews	http://www.annualreviews.org/	33
Cambridge University Press	http://journals.cambridge.org/	224
Economic & Political Weekly	http://www.epw.in/	1
Institute of Physics	http://iopscience.iop.org/journals	46
JSTOR	http://www.jstor.org/	2585
Oxford University Press	http://www.oxfordjournals.org/	206
Project Muse	http://muse.jhu.edu/browse/	493
Royal Society of Chemistry	http://www.rsc.org/	29
Science Direct	http://www.sciencedirect.com/	1389
Springer Link	http://link.springer.com/	1763
Taylor & Francis	http://www.tandfonline.com/	1173
Wiley-Blackwell	http://onlinelibrary.wiley.com/	908
Science Online	http://www.sciencemag.org/	01

Full Test Databases - University Library

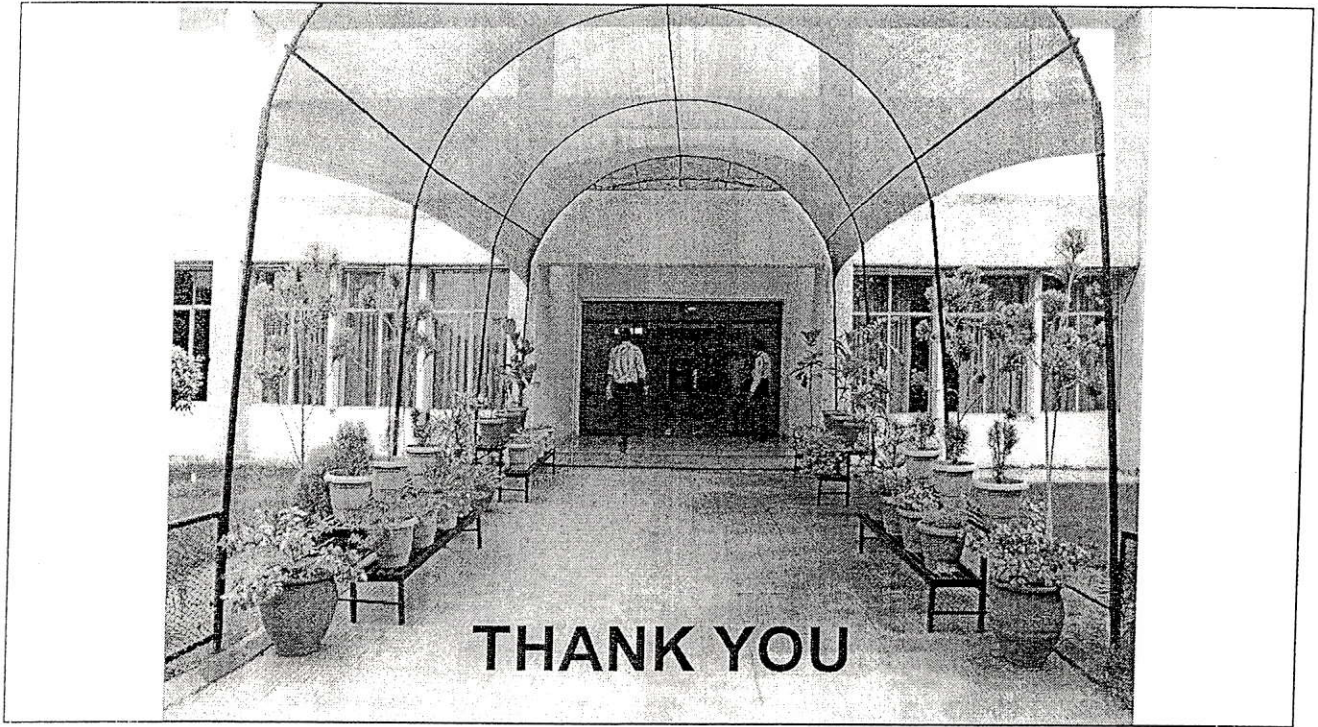
Name of the Database	Description
SCOPUS http://www.scopus.com/	Scopus, the largest abstract and citation database of peer-reviewed literature.
Web of Science https://webofknowledge.com	Web of Science is an online subscription-based scientific citation indexing service maintained by Thomson Reuters that provides a comprehensive citation search.
World Bank e-Library http://elibrary.worldbank.org/	Large collection of World Bank archive and current publications like e-books, reports, journals, policy documents, Development reports and working papers dating as far as the 1970's.
Economic Outlook http://economicoutlook.cmie.com	Carries data on macro-economic forecasts and insights on growth, inflation, fiscal balance, balance of payments, corporate earnings and a host of sectoral indicators on India.
Prowess http://prowess.cmie.com	Provides database of the financial performance and business of over 27,000 companies in India.
States of India http://statesofindia.cmie.com	Provides statistics, official documents of state governments in India on diverse fields and sectors.
Indiastat.com www.indiastat.com	Provides ready to use data on socio-economic life of India and its states online.
DELNET Online http://delnet.nic.in/	Promotes resource sharing among the libraries through the development of a network of libraries. Enables accessing data from the libraries in the network.
ISID (The Institute for Studies in Industrial Development) http://isid.org.in/	Access to databases on various aspects of the Indian economy, particularly industry and the corporate sector and On-line Indexes of Indian Social Science Journals (OLI).
J-Gate http://gateplus.com/search/	JCCC provides a one point access to journals subscribed under UGC INFONET Digital library consortium as well as university libraries designated as Inter Library Loan (ILL) Centers.
Westlaw India http://www.westlawindia.com	Provide access to a large collection of case laws and legal materials from India, and outside particularly from the UK, EU, United States and other Commonwealth Jurisdictions.
Hein Online http://home.heinonline.org	Provides access to more than 1,800 law and law-related periodicals.
Manuparta http://www.manupatra.com	Provides databases on Legal, Taxation, Corporate and Business Policy.
SciFinder Evaluation http://www.cas.org/SCIFINDER/SCHOLAR/index.html	Scientific database that focuses on chemistry.

Main Campus Master Plan



- 9.5 km long boundary wall completed
- PMC for construction to EIL
- Letter of Acceptance Issued by EIL to Contractor on 21.7.15.
- Consent to Establishment (CTE) of Phase – 1a of main campus to get NOC from PPCB.
- Next meeting of BAC on July 28, 2015

Master Plan of main campus



Status of Admissions 2015-16 after Second Counseling

S.No.	Name of the Programme	Seats	Total Filled	Total Vacant	
1	M.Sc. Life Sciences	Plant Sciences	15	13	2
2		Animal Sciences	15	15	0
3		Microbial Sciences	15	9	6
4		Biochemistry	15	14	1
5		Human Genetics	15	13	2
6		Molecular Medicine	15	14	1
7		Bioinformatics	15	13	2
8	M.Sc. Environment Science and Technology	15	13	2	
9	M.Sc. Chemistry	Medicinal Chemistry	15	15	0
10		Organic Chemistry / Inorganic Chemistry / Physical Chemistry/Computational Chemistry	20	18	2
11	M.Sc. Physics	Nanophysics/Computational Physics	20	20	0
12	M.Sc. Mathematics		15	15	0
13	M.Sc. Statistics		15	11	4
14	M.Pharm. Pharmaceutical Sciences	Medicinal Chemistry	18	10	8
15	M.Tech. Computer Science and Technology		24	24	0
16		Cyber Security	15	11	4
17	M.Phil. Comparative Literature		15	15	0
18	M.Phil. South and Central Asian Studies		15	15	0
19	M.Phil. Economics		15	15	0
20	M.A./M.Sc. Geography		15	15	0
21	M.A. Political Science		15	9	6
22	M.A. Sociology		15	8	7
23	M.A. English	Comparative Literature and Translation	15	10	5
24	M.A. Economics		15	11	4
25	LL.M.		15	12	3
26	M.Ed.		50	21	29
27	M.A. Education		15	6	9
28	M.Sc. Earth and Geological Sciences		15	5	10
29	M.A. History		15	5	10
30	M.A. Punjabi		15	2	13
Grand Total			507	377	130

* Total admitted were 383 including 6 Candidates who shifted their courses in second counselling.



No admission

1	M.A. Philosophy	15	-	-
2	M.Sc. Computational Sciences	15	-	-
3	M.Sc. Sports Science	15	-	-
4	M.Pharm. Pharmaceutical Sciences (Pharmacognosy and Phytochemistry)	18	-	-
5	M.A. Hindi	15	-	-

Councelling not Done

1	M.A. Music (Vocal)	15	-	-
2	M.A. Music (Instrumental)	15	-	-
3	M.A. Fine Arts	15	-	-
4	M.A. Theatre	15	-	-
5	PG Diploma Translational Biomedical Research	40	-	-
6	PG Diploma Museology, Archaeology and Conservation	15	-	-

Massive plantation drive in Central University of Punjab, Bathinda

Central University of Punjab Bathinda organised a Massive Plantation drive with an aim to plant 20,000 sapling in the forthcoming new campus at Ghudda on **19th July 2015** (Sunday) under the keen guidance and seasoned expertise of our worthy **Vice Chancellor Prof. R. K. Kohli** to create awareness about beauty and environment.

Dr. Basant Garg, Deputy Commissioner Bathinda lead the campaign along with Shri S.K. Tiwari, Divisional Forest Officer Bathinda, Shri A.K Dabral, Deputy Commandant NDRF, Er. Rupinder Singh Sekhon General Manager Verka Milk plant where all faculty, students and non-teaching staff of CUPB and a team of National Disaster Response Force (NDRF) practically participated in this noble cause. It was felt seriously and decided strongly to create green environment on new campus. It was chalked out to plant 20,000 plants in 80 species in trees and shrubs inside the 9 kms boundary wall. During this campaign **4200 plants** were planted including environmental trees like *arjuna, bahera, chukrasia, kanak champa, kusum, mahua, molsari, neem, pipal, ritha, and shisham* while *amaltas, bauhinia, coral tree, gulmohar, lagerstroemia* in flowering group besides *bael, jamun* and *mulberry* covered the fruits. Selected shrubs being planted in the first phase includes *bougainvilleas, calliandra, chandni, cassia, hamelia, harshingar, jatropha, lagerstroemia, murraya, rat ki raani and thevetia*.

Under the planting strategy, bougainvillea and fragrant shrubs are being planted along the boundary wall then three rows of trees, keeping the tall one towards wall, small trees facing campus while medium in the middle. Beside height of the trees, their leaf shedding, size, shape, colour and time of flowering is also being considered. This blended mix of vegetation ultimately shall present colorful, fragrance and permanent green environment for the residents as well as the visitors in the CUPB.

This is the beginning for the new campus while our concept is to add more number of plant species than planted in the city beautiful Chandigarh for the upkeep of biodiversity and its conservation along with keeping complete balance among *flora and fauna* through its Botanical Garden, herbal garden and heritage garden.

All faculty, students and non-teaching staff have participated in the Plantation Drive and promised for the proper upkeep of plants in future also.

Central University of Punjab, Bathinda

Ref. No. _____

Dated: _____

Office Note

I am in receipt of CV of Prof. A.P. Pathak, Professor, School of Physics, University of Hyderabad. I have gone through his CV and I find this very impressive.

It is proposed that his vast experience in Physics can be utilized to lead the Centre for Physical Sciences of the university. Copy of his CV is enclosed for your kind consideration.

Submitted please.

P. Ramarao
(P. Ramarao) 23/7/15
Dean Academic Affairs

Put up in the agenda of EC if not done yet.

Office

23/7/15

Vice Chancellor

Jan 2012- Nov 2012 UGC BSR Faculty Fellow India
Dec 2012 to date CSIR Emeritus Scientist

Guest Scientist (at foreign institutions) : (after joining the University of Hyderabad in July 1977)

- 1) H.C. Orsted Institute, Copenhagen (Denmark) Summer 1979.
- 2) CSIRO, Division of Chemical Physics, Clayton (Australia) May 1981- Feb. 1982.
- 3) Max Planck Institut fur Metallforschung, Stuttgart (W. Germany).
 - (i) Summer 83
 - (ii) June 85 -Dec. 86(Humboldt fellow)
- 4) ICTP, Trieste (Italy)
 - (i) Feb. - March 76
 - (ii) April - June 1984
 - (iii) August 1985
 - (iv) April 1986
 - (v) August 1991
 - (vi) July-August 1997
 - (vii) Aug-Oct 1998
 - (viii) May 2001 and Aug 2001
 - (ix) June -July 2004
 - (x) June-July 2006 (Directed a Workshop)
- 5) Universitat Freiburg, Germany March-July 1998 (Humboldt Fellow)
- 6) Forschungszentrum Rossendorf (Dresden) Germany
Oct 2000; May-June 2001; May-Aug 2002; May -July 2003 (Humboldt Fellow)
- 7) Universidad Autonoma Metropolitana, Iztapalapa (Mexico City)
Visiting ("Alonso Fernandez Gonzalez" Chair) Professor in Physics
(Feb 2004 to Jan 2005 , one year Sabbatical Leave from Hyderabad)
- 8) University of Padova (Italy) April-May 2005 (Visiting Professor)
- 9) Frankfurt Institute for Advanced Study (FIAS) Uni Frankfurt May-July 2006 (Humboldt Fellow), Nov-Dec 2007
- 10) Institute for Nuclear Studies and Institute for Electronic Materials Technology Warsaw, Poland:
Nov- Dec 2006, April 2007 , Nov 2007 , August 2008
- 11) Spring MRS Meeting in SFO (9-13 April 2007) paper and session chair , Visit to MU
Columbia for new collaborations on oxide materials.
- 12) Spring MRS Meeting in SFO (13-17 April 2009) Session Chair, Talk and two papers,
- 13) Visited NUS Singapore, 20-24 April 2009 for collaboration, in continuation to earlier visit in Nov-Dec 2008
and again in Feb 2011 to deliver invited talk during 4th ISJPS (India Singapore Joint Physics Symposium)
- 14) St. Petersburg Polytechnic University, Russia: Oct 2009, March 2010, July 2010 and Feb 2011
- 15) Institute of Nanotechnology (KIT) Karlsruhe, Germany May-July 2010 (Humboldt Fellow)
- 16) University of Saskatchewan (Canada) Jan 2012 ISTP- GITA(DST) workshop on Energy Materials

Participated , presented papers (Invited and Contributed) and Chaired Sessions in International Conferences on Atomic Collisions in Solids, Ion Beam Analysis, Ion Beam Modifications of Materials in USA, Canada, Europe, Japan and Australia AND International Accelerator Conference series(CAARI) in Denton and Fort Worth, USA. Delivered Lectures and Chaired Sessions in NATO Advanced Research Workshops. Visited several Research Institutions and delivered Colloquia in North America, Europe, Japan and Australia, in addition to INDIA.

Research Interests : Condensed Matter Physics, Atomic Collisions in Solids, Ion Solid Interactions, Ion Beam Studies of Nano-Materials.

- I. Channeling; quantum and wave mechanical properties.
- II. Energy losses and stopping powers; elastic and inelastic.
- III. Electron correlations and related properties and electronic properties of point defects.
- IV. Radiation damage; Effects of point defects and dislocations on channeling and slowing down of particles.
- V. Channeling radiation, coherent bremsstrahlung and defect studies.
- VI. Ion Beam Studies of Strains/Defects/Damage in semiconductor Heterostructures / superlattices and Nano-Materials: Synthesis, Modification and Characterization at nano-scale. Energy Bandgap Engineering

Total number of publications = 242 → 170 (International Journals) + 52 (International and National Refereed Conference Proceedings) + 11 (Reviews) + 9 (Books, 1 +8)

LIST OF PUBLICATIONS
(A P Pathak)

INTERNATIONAL JOURNALS

1. Screening of a fixed charge in Electron Liquid, Phys. Rev. B2, 3021 (1970).
2. Anomalous Transmission of Particles through Perfect Crystals (with M. Yussouff), Phys. Rev. B2, 4723 (1970).
3. Emission of Charged Particles from Crystals (with M. Yussouff), Phys. Rev. B3, 3702 (1971).
4. Screening of a Fixed Charge in Metals, Phys. Stat. Sol. 43, 551 (1971).
5. Screening of a Fixed Charge in Modified Hubbard Approximation, Phys. Stat. Sol. 46, 83 (1971).
6. Charged Particle Energy Loss to Electron Gas (with M. Yussouff), Phys. Stat. Sol 49, 431 (1972).
7. Channeling of Charged Particles in Perfect Crystals (with M Yussouff) Rad. Eff. 16, 1 (1972).
8. Quantum Calculation of Emission of Charged Particles from Crystals, Phys. Rev. B7, 4813 (1973).
9. Phonon Absorption Effects in Directional Emission of Charged Particles from crystals, Phys. Rev. B9, 2406 (1974).
10. Momentum Transfer Cross Sections and the Z Oscillations in Stopping Power (with J S Briggs) J. Phys. C (Sol. Stat. Phys.) 6 L153 (1973).
11. The Z Oscillations in Electronic Stopping Power (with J.S. Briggs), Atomic Collisions in Solids, eds. S. Datz, B.R. Appleton and C.D. Moak (Plenum N.Y. 1975) pp.15.
12. Emission of Electrons and Positrons from Crystals -Directional Effects, Atomic Collisions in Solids, eds. S. Datz, B.R. Appleton and C.D. Moak (Plenum N.Y. 1975) pp. 531.
13. The Stopping power of Solids for Low Velocity Channeled Heavy ions, (with J S Briggs) J.Phys. C (Sol. Stat. Phys.) 7, 1929 (1974).
14. The Z Oscillations in Stopping Power of Metals for Low Velocity Channeled Heavy Ions. J.Phys. F (Metal Physics) 4, 1883 (1974).
15. Z -Dependence of Electronic Stopping Power of Low Velocity Channeled Heavy Ions. J. Phys. C (Sol. Stat. Phys.) 7, 3239 (1974).
16. Energy Loss of Low Velocity Heavy Ions in Planar Channeling, J. Phys. C (Sol. Stat. Phys.) 8, L341 (1975).
17. Stopping Power of Energetic Light Ions in Planar Channeling, Phys. Stat. Sol.(b) 71, K35 (1975).
18. The Ground State of Two Hole Centres in Oxides (with A.M. Stoneham and R.H. Bartram), J. Phys. C (Sol. Stat. Phys.) 9, 73 (1976).
19. Interatomic Potential and Energy Loss in Planar Channeling, J. Phys. C (Sol. Stat. Phys.) 8, L439 (1975).
20. Energy Loss of MeV alpha-Particles in Palladium-Hydrogen Systems in Planar Channeling, Phys. Rev. B13, 461 (1976).
21. Effects of Dislocations on the Energy Loss of Channeled Particles, Phys. Lett. 55A, 104 (1975).

22. Energy loss of alpha-Particles Channeled in Metal-Hydrogen Systems, Nucl. Inst. Meth. 132, 125 (1976).
23. Motion of Charged Particles in Curved Planar Channels - Effects of Dislocations, Phys. Rev. B13, 4688 (1976).
24. Effects of Dislocations on the Energy Loss of Charged Particles in Hyperchanneling, Phys. Lett. 57A, 467 (1976).
25. Interatomic Potential and Channeling, Rad. Effects 30, 193 (1976).
26. Electronic Structure of the V-centre in MgO, (with M.J. Norgett and A.M. Stoneham). Phys. C10, 555 (1977)
27. Motion of Charged Particles in Curved Axial Channels - Effects of Dislocations, Phys. Rev. B15, 3309 (1977).
28. Stopping Power of Solids in Planar Channeling, Phys. Stat. Sol.(b) 86, 751 (1978).
29. Channeling and a Semistatistical Model for Interatomic Potential, (with M P Srivastava) Phys. Stat. Sol. (b) 90, 703 (1978).
30. Interatomic Potential for Atomic Collisions in Real Solids, Rad. Eff. Letters 43, 55 (1979).
31. Simplicity Considerations in Interatomic Potential for Channeling Calculations, Phys. Stat. Sol. (b) 93, K181 (1979).
32. Velocity dependence of Z Oscillations in Stopping Power of Solids for Channeled Heavy Ions, Nucl. Inst. Meth. 170, 209 (1980).
33. Systematic Study of Channeling Stopping Power Oscillations for Low Velocity Heavy Ions Phys. Rev. B22, 96 (1980).
34. Systematic Study of Channeling Stopping Power Oscillations for Low Velocity Heavy Ions II Phys. Rev. B22, 5544 (1980).
35. Energy Loss Spectra in Planar Channeling (with S. Steenstrup), Rad. Effects 55, 17 (1981).
36. Radiation from Relativistic, Positrons Channeled in Single Crystals (with B. Rath), Rad. Effects 63, 227 (1982).
37. Z-Oscillations in Channeling Stopping Power, Nucl. Inst. Meth. 194, 31 (1982).
38. Radiation from Planar Channeled Electrons at High Energies (with B. Rath) Nucl. Inst. Meth. 194, 251 (1982).
39. Superposition criteria in Continuum Potentials for Channeling (with L.T. Chadderton), Phys. Stat. Sol.(b) 110, K97 (1982).
40. Superposition Criteria in charge densities and potentials, Phys. Stat. Sol.(b) 114, K177 (1982).
41. Position Dependence of Channeling Stopping Power, Phys. Stat. Sol.(b) 122, 171 (1984).
42. Channeling Radiation from Relativistic electrons and positrons, Phys. Rev. B31, 1633 (1985).
43. Channeling of Charged Particles in Solids (with P.K.J. Balagari) Indian J. Phys. 60, 237 (1986).

44. Effects of Defects on Channeling Radiation (with P.K.J. Balagari), *Phys. Stat. Sol.(b)*. 134, 115 (1986).
45. Channeling Radiation from strained Layer Superlattices (with P.K.J. Balagari) *App. Phys. Letters* 48, 1075 (1986).
46. Effects of Dislocations on Axial Channeling Radiation from positrons (with P.K.J. Balagari) *J. Appl. Phys.* 60, 955 (1986).
47. The Effects of Superlattice structure on Channeling Radiation from positrons (with P.K.J. Balagari) *Radiation Effects*, 100, 105 (1986).
48. Pion Diffusion Studies using muon Channeling at High Temperatures (with A. Seeger, K. Maier and Others) *NATO Advanced Research Workshop on Relativistic Channeling*. 31 March -April, 86, Maratea (Italy) eds. R.A. Carrigan and J.A... Ellison (Plenum 1987) p.479.
49. Crystal Potentials from Channeling Radiation - A First Principle calculation (with S. Satpathy) in *NATO Workshop* (as in no.48 above) p.455.
50. Progress in Pion decay Channeling; Refractory Bcc metals at high and low temperatures (with A. Seeger, K. Maier and others) *Hyperfine Interactions* 31, 229 (1986).
51. Possibility to use Channeling Radiation to study the strained layer superlattices (with P.K.J. Balagari) *Proc. 18th Int. Conf. Phys. Semiconductors, Stockholm (Sweden) Aug. 11-15, 1986* (ed. O. Emngstrom) World Scientific Publishing Co., Singapore, 1987 p. 1863.
52. A model potential calculation for positron axial channeling from dislocation affected crystals (with P.K.J. Balagari), *Physica Status Solidi (b)* 141, K15 (1987)
53. Response to comment on channeling Radiation from strained layer superlattices (with P.K.J. Balagari) *Appl. Phys. Lett.* 50, 699 (1987).
54. Study of Crystal Defects using ion channeling and channeling radiation, *Bull Material Science* 10, 105 (1988).
55. Channeling Radiation from relativistic electrons and positrons in C, Si, Ge- Results of a local density calculation (with S. Satpathy) *Nucl. Inst. Meth.* B33, 39 (1988).
56. Study of Semiconductor Superlattices using energetic charged particles, *Indian J. Phys.* 63A, 248 (1989).
57. Effects of Dislocations on Ion Beam Channeling (with P.K.J. Balagari) *Indian J. Phys.* 63A, 487 (1989).
58. Planar Channeling of Electrons and Positrons in Crystals: Local Density Calculation of Planar Averaged Potential and Channeling Radiation Spectrum (with S. Satpathy) *Phys. Stat. Sol.(b)* 153, 455 (1989).
59. Planar Channeling of electrons and positrons in crystals: Local Density calculation of continuum potential and channeling radiation spectrum (with S. Satpathy) *Nucl. Inst. Meth.* B48, 248 (1990).
60. Axial channeling radiation from MeV electrons in various crystal targets (with P.K.J. Balagari) *Nucl. Inst. Meth.* B48, 252 (1990).
61. Position dependent stopping power for Axially channeled 10 to 160 MeV Alpha Particles in Silicon (with R. Agnihotri), *Nucl. Inst. Meth.* B67, 39 (1992).
62. Dechanneling cross section of alpha-particles by Interstitial atoms in Palladium (with Z. Chylinski, A. Dunlop and J. Mory) *Nucl. Inst. Meth.* B71, 255 (1992).

63. Shell structure potential for channeling in Solids (with V. Harikumar) *Phys. Stat. Sol.(b)* 177, 269 (1993).
64. Z Oscillation in Stopping power of Silicon (with V. Harikumar) *J. Phys. Condensed Matter* 5, 3163 (1993).
65. Effects of Defects and Disorder on Channeling Radiation (with V. Harikumar) in *Ordering Disorder : Prospect and Retrospect in Condensed Matter Physics*, (eds).V Srivastava, A K Bhatnagar and Naugle (AIP Conf. Series No.286) 193 p. 255.
66. Planar Channeling Radiation from electrons and positrons in Silicon (with V. Harikumar) *Phys. Stat. Sol.(b)* 182, 51 (1994).
67. Electronic Stopping Power measurements using secondary ion beams (with N. Nath, O.P. Dahaniwal, A. Bhagwat, D.K. Awasthi and V. Harikumar) in *Surface and Coating Technology* (ed. G. Dearnaley 1994). 66, 231 (1994).
68. Stopping Power of Mylar and Carbon (with V. Harikumar, N. Nath S.K. Sharma, A. Bhagwat and D.K. Awasthi) *Rad. Effects and Defects in Solids* 132, 211 (1994).
69. Double Screening problem in Dechanneling by point Defects (with A.M. Siddiqui and V. Harikumar) *Phys. Stat. Sol.(b)* 185, 77 (1994).
70. Charged Particle Probes to Semiconductor superlattices (with V. Harikumar) *Nucl. Inst. Methods B* 99, 499 (1995).
71. Study of Catastrophic Dechanneling Resonance in Strained Layer Superlattices using Shell Structure Potential (with V. Harikumar) *J. Phys. Cond. Matter* 7, 7805 (1995).
72. Energy Loss of MeV Heavy ions in Carbon (with V. Harikumar, S.K. Sharma, Shyamkumar, N. Nath, D. Kabiraj and D.K. Avasthi) *Nucl. Inst. Meth. B*108, 223 (1996).
73. Stopping power of Carbon for heavy ions up to Copper (with Shyam Kumar, S.K. Sharma, N. Nath, V. Harikumar, D. Kabiraj and D.K. Avasthi) *Rad. Effects and Defects in Solids* 139, 197 (1996)
74. Scattering of pions and channeled muons by impurities in single crystals (with A.M. Siddiqui, V. Harikumar and L.N.S. Prakash Goteti) *Mod. Phys. Lett B*10, 745,(1996)
75. Ion Channeling Studies in $\text{In}(x)\text{Ga}(1-x)/\text{Ga As}$ (with V Harikumar and A M Siddiqui) *Solid State Phenomena* (Scitec publication, Switzerland) 55 ,86 (1997)
76. Dechanneling by stacking faults - A Quantum Mechanical Calculation (with L.N.S. Prakash Goteti) *J Phys (Cond Matter)* 9,1709,(1997)
77. Stopping Power of Carbon for Si, Fe, Ni and Cu ions using ERDA Technique (with Shyam Kumar, S.K. Sharma, N. Nath, V. Harikumar, D. Kabiraj and D.K. Avasthi) *Nucl Inst Meth B* 129, 143 (1997).
78. MeV Heavy ion Stopping Power Measurements using N S C Pelletron (with Shyam Kumar, S.K. Sharma, N. Nath, V. Harikumar, S. K. Hui, D. Kabiraj and D. K. Awasthi) *Vacuum* 48, 1027 (1997)
79. Dechanneling by Ionized Point Defects in Solids - Double Screening Effects (with A M Siddiqui and A Kiran) *Mod. Phys. Letters B* 11, 1231 (1997)
80. Dechanneling by Dislocations - A Model Quantum Mechanical Calculation (with L N S Prakash Goteti) *Phys. Rev. B* 58, 5243 (1998)

81. Lattice Strain Measurements of Strained In_{0.1}Ga_{0.9}As/ Ga As Hetero-structures by RBS and Channeling(with A.M. Siddiqui, B. Sundaravel, A.K.Das, K.Sekar, B.N. Dev and B.M. Arora) Nucl Inst Meth B 142,387(1998)
82. Experimental Study of Stopping Power of MeV Heavy Ions (with A. Sharma S. Kumar, S.K. Sharma, N. Nath, V. Harikumar, L.N.S. Prakash Goteti S.K. Hui and D.K. Avasthi) J Phys. G 25, 135 (1999)
83. Dechanneling by Dislocations - A time Dependent Approach (with LNS Prakash Goteti) Phys. Rev. B 59, 8516 (1999)
84. Quantum Models for Dechanneling by Point Defects and Extended Defects (with LNS Prakash Goteti and AM Siddiqui) AIP Conference Proceedings 475,208 (1999) (Denton Accelerator Conference 1998)
85. Energy Loss of Heavy Ions in Solids at Energies below 5 MeV/n (with A Sharma and Shyam Kumar) AIP Conference Proceedings 475 , 765(1999) (Denton Accelerator Conference 1998)
86. Defects and Strain Studies in Semiconductor Multilayers (with SVS NageswaraRao and A M Siddiqui) Nucl Inst Methods B 161, 487 (2000)
87. Ion Channeling, High Resolution XRD and Raman Spectroscopy in Strained Quantum Wells (with AM Siddiqui and SVS Nageswara Rao et al.) J. Appl. Phys. 90, 2824 (2001)
88. Strain Measurements of Semiconductor Multilayers by Ion Channeling ,High Resolution XRD and Raman Spectroscopy (with SVS Nageswara Rao and AM Siddiqui) AIP Conference Proceedings 576, 476 (2001) (Denton Accelerator Conference . 2000)
89. Ion Beam Studies in Strained Layer Superlattices (with AM Siddiqui, GBVS Lakshmi et al) Nucl. Inst. Methods B 193, 319 (2002)
90. Channeling Radiation from Relativistic Electrons - Study of Stacking Faults and Dislocations (with LNS Prakash Goteti, and SVS Nageswara Rao) Nucl. Inst Methods B 193, 188 (2002)
91. Channeling Radiation from Relativistic Electrons and Positrons (with SVS Nageswar Rao and LNS Prakash Goteti) Ind J Phys. 76B, 443 (2002)
92. Quantum Description for the Effects of Strained Layer Superlattices on Channeling Radiation (with SVS Nageswara Rao and LNS Prakash) Nucl. Inst Methods B 202,312(2003)
93. Ion Beam Induced Modification of Lattice Strains in In_{0.1}Ga_{0.9}As/ Ga As system (with SVS Nageswara Rao et al) Nucl Inst Methods B 212, 473 (2003)
94. Ion Beam Characterization and Engineering of Strain in Semiconductor Multilayers (with SVS Nageswara Rao et al) Nucl Inst Methods B 212, 442 (2003)
95. Development of a Large Area two dimensional Position Sensitive ΔE -E Detector Telescope for Material Analysis (with SVS Nageswara Rao et al) Nucl Inst Methods B 212, 545 (2003)
96. Ion Beam Studies of Strains/Defects in Semiconductor Multilayers (with SVS Nageswar Rao et al) AIP Conf Proc 680, 593 (2003)
97. Automation of Channeling Experiment for Lattice Strain Measurements Using High Energy Ion Beams (with SVS Nageswara Rao et al) AIP Conference Proc. 680, 94 (2003)
98. Inelastic cross-sections of energetic protons in liquid water calculated by model dielectric functions and optical data (with D. Emfietzoglou and M. Moscovitch) Nucl Inst Methods B 212, 101 (2003)

99. Dechanneling of Electrons by Stacking faults- A model Quantum Mechanical Calculation (with S Dhamodaran et al) Nucl Inst Methods B 230, 100 (2005)
100. A Monte-Carlo Study of Sub-keV Electron Transport in Water- The Influence of Condensed Phase (with D Emfietzoglou et al) Nucl Inst Methods B 228, 341 (2005)
101. Modelling the Energy and Momentum Dependent Loss-Function of the valence shells of Liquid Water (with D. Emfietzoglou and M. Moscovitch) Nucl Inst Methods B 230, 77 (2005)
102. Pressure Dependence of the Mean Excitation Energy of Atomic Systems (with S Cruz and J Soullard) Nucl Inst Methods B 230, 46 (2005)
103. Pressure Effects on Stopping Power of Solids for Channeled Ions (with S Cruz and J Soullard) Rad Eff and Defects in Solids 160, 1 (2005)
104. A Monte-Carlo Code for the Detailed Simulation of Electron and Light Ion Tracks in Condensed Matter (with D Emfietzoglou et al) Radiation Protection Dosimetry, 119, 491 (2006)
105. A study of Electronic Stopping of Protons in Soft Biological Matter (with D Emfietzoglou et al) Nucl Inst Methods B 242, 55 (2006)
106. Ion Beam Irradiation and Characterization of GaAs based Heterostructures (with S Dhamodaran et al) Nucl Inst Methods B 242, 538 (2006)
107. RBS / Channeling Studies of Swift Heavy Ion Irradiated In Ga As / Ga As Heterostructures (with S Dhamodaran et al) Nucl Inst Methods B 244, 174 (2006)
108. Ion Beam Analysis of Defects and Strain in Swift Heavy Ion Irradiated In Ga As /Ga As Heterostructures (with S Dhamodaran et al) Nucl Inst Methods B 254, 283(2007)
109. Electronic Stopping cross Sections for Proton Transport in Liquid Water Based on Optical Data Models (with D. Emfietzoglou et al) Nucl Inst Methods B 249, 26 (2006)
110. Proton Beam Profiling in soft Biological Matter by Detailed Monte Carlo Simulation, (with D. Emfietzoglou et al) Nucl Inst Methods B 249, 670 (2006)
111. Monte Carlo Calculation of Nanoscale dosimetric distributions of MeV proton tracks with secondary electron transport.(with D Emfietzoglou et al) Nucl Inst Methods B 245, 80 (2006)
112. Raman and AFM Studies of Swift Heavy Ion Irradiated InGaAs/GaAs Heterostructures (with S Dhamodaran et al) J Phys Condensed Matter 18, 4135 (2006)
- 113 High Resolution XRD Analysis of Swift Heavy Ion Irradiated InGaAs/GaAs Heterostructures (with S Dhamodaran et al) Nucl Inst Methods B 256, 260 (2007)
114. Effects of hypersonic field and anharmonic interactions on channeling radiation (with Juby George et al) J Phys Condensed Matter 19, 116210 (2007)
115. A comparative study of dielectric response function models for liquid water (with D Emfietzoglou and H Nikjoo) Radiation Protection Dosimetry 122, 61 (2006)
116. A Monte Carlo Study of Energy Deposition by Heavy Charged Particles in Sub Cellular Volumes (with D. Emfietzoglou et al) Radiation Protection Dosimetry 126, 457 (2007)
117. The electronic stopping power of liquid water for protons down to the Bragg peak (with D Emfietzoglou and H Nikjoo) Radiation Protection Dosimetry 126, 97 (2007)

118. A Monte Carlo study of Energy Deposition at the Sub-cellular Level for Application to Targeted Radionuclide Therapy with Low Energy Electron Emitters (with D. Emfietzoglou et al) Nucl Inst Methods B **256**, 547 (2007)
119. A Consistent Dielectric Response Model for Water Ice over the whole Energy-Momentum Plane (with D Emfietzoglou and H Nikjoo) Nucl Inst Methods B **256** , 141 (2007)
120. HRXRD, AFM & Optical Study of Damage Created by Swift Heavy Ion Irradiation in GaN Epitaxial Layers (with N Sathish etal) Nucl Inst Methods B **256**, 281 (2007)
121. Quantum Calculations for the effects of dislocations on Channeling and Channeling Radiation (with Juby George) Nucl Inst Methods B **256**, 148 (2007)
122. Energetic Cluster Irradiation of InP (with S Dhamodaran et al)
Nucl Inst Methods B **256**, 229 (2007)
123. Low and High Energy Irradiation of InGaAs/GaAs Heterostructures – A Comparison (with S Dhamodaran etal) Rad Effects Defects in Solids **162** , 215 (2007)
124. Surface Modification of InGaAs/GaAs Heterostructures by Swift Heavy Ion Irradiation (with S Dhamodaran etal) Nucl Inst Methods B **257**, 301 (2007)
125. A comparison of Secondary Electron Spectra from Proton Impact Ionization on Water in the Liquid and Solid phases (with D. Emfietzoglou et al) Nucl Inst Methods B **257**, 609 (2007)
126. Swift heavy ion irradiated InGaAs/InP multi quantum wells: Band-structure, interface and surface modifications (with S Dhamodaran etal) Nucl Inst Methods B **266**, 583 (2008)
127. Influence of activation of Si²⁹⁺ ion-implantation in GaAs on ohmic contact resistance and electrical performances of MESFETs (with G Sai Sarvanan et al) Rad Effects & Defects in Solids **163**, 737 (2008)
128. Structural studies of Ge nanocrystals embedded in SiO₂ (with N Srinivasa Rao etal) Nucl Inst Methods B **264**, 249 (2007)
129. Electron ionization cross section calculations for liquid water at high impact energies (with D. Emfietzoglou et al) Nucl Inst Methods B **266**, 1185 (2008)
130. Semi-empirical dielectric descriptions of the Bethe surface of the valence bands of condensed water (with D. Emfietzoglou et al) Nucl Inst Methods B **266**, 1154 (2008)
131. Ion beam modification studies of InP based multi quantum wells (with S Dhamodaran et al) Nucl Inst Methods B **266**, 1810 (2008)
132. Structural and Compositional Analysis of Strain Relaxed InGaAs/InP Multi Quantum Wells (with S Dhamodaran etal) Nuclear Inst Methods B **266**, 1908 (2008)
133. Ohmic contacts to pseudomorphic HEMTs with low contact resistance due to enhanced Ge penetration through AlGaAs layers (with G Sai Sarvanan etal) Semiconductor Science and Technology **23** 025019 (2008)
134. Ion beam modification of strained InGaAs/InP characterized by HRXRD, PL and AFM (with G Devaraju etal) Nucl Inst Methods B **266**, 3552 (2008)
135. Subcellular S-values for low energy electrons: A comparison of Monte Carlo simulations and continuous slowing down calculations (with D. Emfietzoglou et al) International Journal of Radiation Biology **84**, 1034 (2008)

136. Electron inelastic mean free paths in biological matter based on dielectric theory and many-body local-field corrections (with D. Emfietzoglou et al) Nucl Inst Methods B **267**, 45 (2009)
137. The effects of energy-loss straggling and elastic-scattering models on Monte Carlo calculations of dose distribution functions for 10 keV to 1 MeV incident electrons in water (with D. Emfietzoglou et al) Nucl Inst Methods B **267**, 1725 (2009)
138. RBS/Channeling and HRXRD studies on swift heavy ion irradiated GaN layers (with N Sathish et al) (CAARI 2008) AIP Conference Proceedings 1099, 385 (2009)
139. Investigation of strain in AlGaIn/GaN Multi Quantum Wells by complementary techniques (with G Devaraju et al), (CAARI 2008) AIP Conference Proceedings 1099, 353 (2009)
140. Effects of Dislocations on Electron Channeling (with Juby George) J Phys Cond Matter **21** , 075401 (2009).
141. Synthesis and Characterization of nc-Ge embedded in SiO₂/Si matrix (with N Srinivasa Rao et al) Rad. Effects and Defects in Solids, **164**, 452 (2009)
142. Study of H loss from hydrogenated Hg_{1-x} Cd_{x}Te under high electronic excitation by elastic recoil detection analysis (ERDA) (with Anjali et al) Nucl Inst Methods B **267**, 1797 (2009)
143. Effects of dislocations on channeling radiation from a periodically bent crystal (with Juby George and A V Solovoyov), J Phys Cond Matter **21**, 245402 (2009)
144. Structural damage in ZnO bombarded by heavy ions (with A.Yu. Azarov and , A.I. Titov et al) Vacuum **84**, 1058 (2010)
145. Ion beam studies of multi quantum wells of III-nitrides (with G Devaraju et al) Vacuum **84**, 1049 (2010)
146. Stopping power of GaAs for swift protons: dielectric function and optical-data model calculations (with N Sathish et al) Nucl Inst Methods B **268**, 1723 (2010)
147. SHI induced re crystallization of Ge implanted SiO₂ films (with N Srinivasa Rao et al) NIM B **268**, 1741 (2010)
148. Effects of Swift Heavy Ion irradiation on Band gap of Strained AlGaIn/GaN Multi Quantum Wells (with G Devaraju et al) NIM B **268**, 3001(2010)
149. Dechanneling of positrons by dislocations: Effects of Anharmonic Interactions (with Juby George) Int J. Mod. Phys. A **25**, 144 (2010)
150. Strain modification of AlGaIn layers using swift heavy ions (with N Sathish et al) Rad Effects & Defects in Solids **166**, 843(2011)
151. Characterization of GeO₂ nanocrystals prepared by microwave annealing (with V Saikiran et al) , AIP Conference Proceedings **1336**, 264 (2011)
152. Synthesis of Ge nanocrystals by atom beam sputtering and subsequent rapid thermal annealing (with N Srinivasa Rao et al) Solid State Communications **150** , 2122 (2010)
153. SHI Effects On Ge+SiO₂ Composite Films Prepared By RF Sputtering (with N Srinivasa Rao et al) AIP Conference Proceedings **1336**, 341 (2011)

154. Electronic Stopping dependence of Ion beam induced modifications in GaN (with G Devaraju et al) Nucl Inst Methods B 269, 890 (2011)
155. Monte Carlo calculations of low-energy electron dose-point-kernels in water using different stopping power approximations. (with D. Emfietzoglou et al) Nucl Inst Methods B 269, 1650 (2011)
156. Band gap controlled H loss from passivated $\text{Hg}_{1-x}\text{Cd}_x\text{Te}$ (MCT) wafers under intense electronic excitation (with Anjali et al) Nucl Inst Methods B 269, 1016 (2011)
157. Growth and characterization of nc-Ge prepared by microwave annealing (with N Srinivasa Rao et al) Vacuum 85, 927 (2011)
158. Ion beam studies of semiconductor nanoparticles for the integration of optoelectronic devices (with SVS Nageswara Rao et al) AIP Conference Proceedings 1336, 332 (2011)
159. Photoluminescence and Photoluminescence excitation studies in 80 MeV Ni ions irradiated MOCVD grown GaN (with G Devaraju et al) Nucl Inst Methods B 269, 1925 (2011)
160. Structural Changes Induced by Swift Heavy Ion Beams in Tensile Strained $\text{Al}(1-x)\text{In}(x)\text{N}$ /GaN Hetero-Structures (with G Devaraju et al) MRS 2011 Spring meeting II on "Ion Beams--New Applications from Mesoscale to Nanoscale" 1354, 115 (2011)
161. SHI irradiation induced effects in functionalized MWCNTs, (with V Saikiran et al) Rad Effects & Defects in Solids 167,569 (2012)
162. Ion beam treated strained AlGaIn/GaN multi quantum wells: HAADF- STEM and HRTEM characterization (with G Devaraju et al) Rad Effects & Defects in Solids 167, 612 (2012)
163. Anharmonic effects on Positron Channeling Angular scans and Dechanneling due to Stacking faults and Platelets (with SVS Nageswara Rao et al) Rad Effects & Defects in Solids 167,594 (2012)
164. Ion beam mixing effects in nearly lattice matched AlInN/GaN heterostructures by swift heavy ion irradiation (G Devaraju et al) Rad Effects & Defects in Solids 167,506 (2012)
165. Effects of concentration and thermal annealing on the optical activation of Er implanted into GaN layers (with N Sathish et al) Rad Effects & Defects in Solids 167,512 (2012)
166. Synthesis and Tailoring of GaN nanoparticles by RF magnetron sputtering at room temperature (with G Devaraju et al) Rad Effects & Defects in Solids 167, 659(2012)
167. Ion beam irradiation effects on Ge nanocrystals synthesized by using RF sputtering followed by RTA (with V Saikiran et al) Nucl Inst Methods B (in press)
168. Structural and Optical properties of Porous Silicon prepared by anodic etching of Irradiated Silicon (with V S Vendamani et al) Nucl Inst Methods B (in Press)
169. Effects of swift heavy ion-irradiation on mica and coal based rocks of Lower Himalayas in Sikkim, India (with A Tiwari et al) Rad Effects & Defects in Solids (in press)
170. Formation of Ge nanocrystals from ion-irradiated GeO_2 nanocrystals by swift Ni ion beam (with V Saikiran et al) Nucl Inst Methods B (in press)
171. Synthesis of Si Nanocrystals by Ultrafast Laser Ablation of Si wafers in Liquid Media (with R Brahma et al) To be submitted

Symposia, Conferences and Meetings

1. Particle Scattering and Penetration through Crystals (with M. Yussouff), Nuclear Physics and Solid State Physics (India) 11C, 370 (1968).
2. Static Screening in Metals, Nuclear Physics and Solid State Physics (India), 14C, 37 (1972).
3. Energy Loss of Energetic alpha-particles in Planar Channeling, Nuclear Physics and Solid State Physics (India) 19C, 125 (1976).
4. Channeling Radiations from Relativistic Particles - Possibilities in Defect Studies (with L.T. Chadderton and B. Rath), Second Applied Physics Conference RMIT - Melbourne (30 Nov - 4 Dec. 1981).
5. Channeling Radiation and Application to defects in Solids, presented at the International Symposium on the Nuclear Accelerator impact in the interdisciplinary field, Laboratori Nazionali di Legnaro (Padova, Italy) 30 May - 1 June 1984.
6. Ion Implantation and Channeling with MeV Ions (Invited Talk) IPA Seminar on Research with Low Energy Accelerators, Institute of Physics, Bhubaneswar (28th Nov. - 1 Dec. 1984).
7. Channeling Stopping Power in Planar Channeling (with P.K.J. Balagari) contributed paper at IPA Seminar on Research with Low Energy Accelerators, Bhubaneswar (28th Nov. - 1 Dec. 1984).
8. Channeling Radiation Applications in Defects in Solids (with P.K.J. Balagari) Proceedings of Silver Jubilee Workshop on Recent Advances in Theoretical Physics, IIT, Kanpur (India) 5-16 Dec. 1984, ed. R. Ramachandran (World Scientific, Singapore, 1985) p.398.
9. Channeling Radiation-Possibilities in Laser Physics (Invited Review Talk) Proc. Fifth National Workshop on Atomic and Molecular Physics, TIFR-Bombay (17th Dec. - 21 Dec. 1984).
10. Channeling of Charged Particles in Solids, Invited Paper at National Seminar on Solid State Physics (Golden Jubilee, Indian Physical Society) at I A C.S. Calcutta (14 - 17 Feb. 1985).
11. Ion Implantation and Defect Studies in Semiconductors (Invited Talk) International Conf. on Physics and Technology of compensated semiconductors, IIT-Madras (20-22 Feb. 1985).
12. Effects of Defects on Channeling Radiation (with P.K.J. Balagari) Seventh International Conference on Ion Beam Analysis, 7-12 July 1985 Berlin (W. Germany).
13. Charged Particle Interaction with Crystalline Solids-Defect Studies (Invited Talk in National Workshop on Modification of Materials - Bombay University (25-26 Feb. 1988).
14. Study of Dislocations using energetic ion beams (with P.K.J. Balagari) contributed paper in the National Workshop on modification of materials - Bombay University (25-26 Feb. 1988).
15. Study of Defects and Strained Layer Superlattices using Energetic charged particles. Invited Talk at 76th Session of Indian Science Congress at Madurai Kamaraj University (7-12 Jan. 1989).
16. Study of Defects and Semiconductor Superlattices using energetic charged particles. Invited Talk at the International Conf. on Semiconductor Materials, Delhi University (Dec. 8-16, 1988) J. Semiconductor Materials and Devices 1, 52 (1989).
17. Collisions of light energetic charged particles in solids. Invited Talk at the 8th National Workshop on Atomic and Molecular Physics, Hyderabad (6-12 Dec. 1990). Atomic and Molecular Physics (ed. A.P. Pathak) Narosa (1992) p.165.

18. Charged Particle Probes to study Defects and Disorder in crystalline materials. Invited Talk at the International Conference on Disordered Materials (Structure and Properties) at Indore (3-6 Feb. 1991).
19. Shell potential and charge densities for channeling in silicon (with V. Harikumar and R. Agnihotri) Proc. of DAE Symposium on Solid State Physics B.H.U. Varanasi (Dec. 1991). Vol. 34C, p. 157.
20. Channeling Radiation from relativistic electrons and positrons channeled in crystals (with V. Harikumar) Proc. Int. Conference on Synchrotron Radiation Sources C.A.T., Indore (3-6 Feb. 1992) eds. S.S. Ramamurthi et al, p.402.
21. Channeling of Energetic Charged Particles in Semiconductor Superlattices (Invited Talk at 2nd International Conference on Semiconductor Materials, 1992, University of Delhi (South Campus) 14-19 Dec. 1992.)
22. Shell Structure Potential for Channeling in Semiconductors (with V. Harikumar) (contributed paper at 2nd International Conference on Semiconductor materials, University of Delhi (South Campus) 14-19 Dec. 1992).
23. Planar Channeling Radiation from Relativistic electrons and Positrons in Silicon (with V. Harikumar) Proc. DAE Symposium on Solid State Physics, S.V. University, Tirupati (Dec. 1992) Vol. 35C, page 163.
24. Al Ion stopping power measurements in C-Foil (with S.K. Sharma, N. Nath, A. Bhagwat and D.K. Avasthi) Proc. DAE Symposium on Nuclear Physics, Calicut University Dec. 1993) Vol. 36B, p.422.
25. Study of Defects and Strains in Strained Layer Superlattices using channeling radiation (with V. Harikumar) Proc. DAE Symposium on Solid State Physics (BARC, Bombay Dec. 1993) Vol. 36C, p.265.
26. The strategy for high quality Research-Accountability and optimum use of funds and facilities: Invited Talk at Ninth Annual Convention of Indian Association of Physics Teachers held at GND University, Amritsar (19-22 Dec. 94).
27. Strained Layer superlattices studies using Shell structure potential (with V. Harikumar) Proc. DAE symposium on Solid State Physics (University of Rajasthan, Jaipur, Dec. 1994) Vol. 37C, 185 (1994).
28. Stopping Powers of Ti, Fe, Cu, Ions (Energy Range 0.2-1.0 MeV/u) in Carbon (with S.K. Sharma, Shyam Kumar, N. Nath, V. Harikumar and D.K. Avasthi) Proc. DAE Symposium on Nuclear Physics (IOP Bhubaneswar, Dec. 1994) Vol. 37B, 509 (1994).
29. Quantum Description of Dechanneling by Stacking faults (with L.N.S. Prakash Goteti) Proc. DAE Symposium in Solid State Physics (IACS, Calcutta, Dec. 1995) Vol.38C, 66 (1995).
30. Stopping Powers of Sc, Cr and Mn ions in Carbon (with Shyam Kumar, S.K. Sharma, N. Nath, V. Harikumar, D. Kabiraj and D. K. Avasthi) Proc. DAE International Conference on Nuclear Physics (ICNP-95) Dec 1995.
31. Prospects of Using Shell Model Charged Density as a substitute for Hartree Fock Density in Materials Properties studies (with V Harikumar) DAE Symposium on Solid State Physics (BARC Bombay, Dec 1996) Vol 39C, 56,, (1996).
32. A Quantum Model for the effects of Dislocations in Axial Channeling (with LNS Prakash Goteti) Proc DAE symposium on Solid State Physics (BARC Bombay, Dec 1996) Vol 39C, 193 (1996).
33. Quantum Description of Electron Dechanneling by stacking Faults (with LNS Prakash Goteti and SVS Nageswara Rao) Proc DAE symposium on Solid State Physics (Bilaspur Dec 2000) Vol 43, 322 (2000).

34. Quantum Description for the effects of Strained Layer Superlattices on Channeling Radiation (with SVS Nageswar Rao, LNS Prakash Goteti and AM Siddiqui) Proc DAE Symposium on Solid State Physics (Mumbai Dec 2001) Vol 44.
35. Swift Heavy Ion Mixing in In(0.12)Ga(0.88) As/GaAs Strained Layer Superlattices (with SVS Nageswar Rao et al) Proc DAE Symposium on Solid State Physics(Mumbai Dec 2001) Vol 44.
36. Quantum Description of the effects of extended Defects on Channeling Radiation (with SVS Nageswar Rao and LNS Prakash Goteti) in Atomic and Molecular Physics (Phoenix Delhi 2001) Ed. R. Srivastava pp 219-228.
37. Channeling Radiation in Strained layer Superlattices - A Quantum Mechanical Calculations (with SVS Nageswar Rao et al) in Current Developments on Atomic Molecular and Chemical Physics with Applications (Kluwer Academic/Plenum Publishers 2003 ed. Man Mohan) pp. 259-263.
38. Ion Beam Techniques for modification and Study of Semiconductor Heterostructures, (with A.M. Siddiqui and others) Invited Talk in International Conference, ASTRA, Nov. 2003, Hyderabad, India.. Proceedings Edited by TS Sudrashan etal (2004) pp 633-641
39. Ion beam characterization and engineering of strain in semiconductor multilayers, (with S.V. S. Nageswara Rao, and D.K. Avasthi) DAE Solid State Physics Symposium, 26-30th Dec, 2003, Jiwaji university, Gwalior, Vol 46.
40. Channeling Techniques to Study Strains and Defects in Heterostructures and Multi Quantum Wells (with S Dhamodaran and N Sathish) Proceedings of Channeling 2004, 2-6 Nov. 2004 (Frascati Italy) Proceedings of SPIE Vol 5974 pp 136 - 146 (2005)
41. Influence of Oxygen Plasma Treatment on the Uniformity of Activation of Rapid Thermal Annealed GaAs wafers. (with G Sai Saravanan etal) Proc . International Workshop on Physics of Semiconductor Devices (IWPSD 2005) pp 852-856
42. Effects of Transverse Periodic Perturbation on Channeling Radiation (with Juby George), Proceedings of **Channeling 2006**, 3-7 July 2006 (Frascati Italy) Proceedings of SPIE Volume 6634, Paper 6634 oq , DOI: 10.1117/12.741894 (2007)
43. Effects of Hypersonic Field and Other defects on Channeling Radiation (with Juby George) , pages 311-317 in the Proceedings 2nd Int Conference on Current Developments in Atomic Molecular and Optical Physics (New Delhi 21-23 March 2006) Proceedings published as Atomic Structure & Collision Processes, Narosa Publishers July 2009 Edited by Man Mohan
44. Ambiguity of mixing at the InGaP/GaAs interface (with S Dhamodaran et al) DAE Solid State Physics Symposium , Solid State Physics **51** , 435 (2006)
45. Analysis of Defects in Heterostructures by RBS/Channeling (S Dhamodaran et al) DAE Solid State Physics Symposium Solid State Physics **51** , 777 (2006)
46. Channeling Radiation influenced by External Hypersonic Fields (with Juby George) DAE Solid State Symposium, Solid State Physics **51** , 779 (2006)
47. High Resolution XRD Studies of Ion Beam Irradiated InGaAs/InP Multi Quantum Wells (with S Dhamodaran et al) Proceedings of MRS spring meeting Symposium GG Ion Beam Based NanoFabrication SFO USA 9-13 April 2007. Published in MRS Symp. Proc. Vol. 1020 (2007) 1020-GG07-24.
48. Reliability Studies of Au Ge/ Ni/Au Ohmic Contacts to MESFETs by accelerated Thermal Aging Tests (with G Sai Sarvanan etal) IWPSD 2007 (IIT Mumbai) p 46

49. Dechanneling of Positrons by Dislocations (with Juby George) in **Charged and Neutral Particles Channeling Phenomena**, Eds. S.B. Dabagov, and L. Palumbo ("Channeling 2008" - Erice, Italy 25 October - 1 November 2008), Proceedings of the 51st Workshop of the INFN ELOISATRON Project, Series Editor: A. Zichichi, World Scientific Publishing, 2009. and in the journal **Intern. Journal of Modern Physics A 2009**
50. Ion Beam Synthesis of Ge Nanocrystals Embedded in SiO₂ Matrix (with N Srinivasa Rao et al) Proceedings of MRS spring meeting Symposium DD Ion Beams and Nano-Engineering SFO USA 13-17 April 2009. MRS Symp. Proc. Vol. 1181, 99 (2009).
51. Band Gap Engineering of Nano Scale AlGaN Epitaxial Layers by Swift Heavy Ion Irradiation (with N Sathish et al). Proceedings of MRS spring meeting Symposium DD Ion Beams and Nano-Engineering SFO USA 13-17 April 2009. MRS Symp. Proc. Vol. 1181, 53 (2009).
52. RBS, XRD, Raman and AFM Studies of Microwave Synthesized Ge Nanocrystals (with N Srinivasa Rao et al) Proceedings of MRS (2011) spring meeting Symposium II on "Ion Beams-New Applications from Mesoscale to Nanoscale" 1354, 141 (2011)

REVIEWS

1. The Effects of Defects on Charged Particle Propagation in Crystalline Solids (Invited Review Article) *Rad. Effects* 61, 1-46 (1982).
2. Atomic Collisions in Crystalline Solids, Atomic and Molecular Physics, (Proc. Third National Workshop Invited Talk) ed. M.K. Srivastava (Sarita Prakashan, Delhi, India, 1982) pp. 73-84.
3. Ion Implantation and Defects Studies in Semiconductors, *J. Nat. Phys. Sciences* 1, 39 (1987).
4. Effects of Strains and Defects on Channeling (with V. Harikumar and L.N.S. Prakash Goteti), *Advances in Theoretical Physics*, ed. A.P. Pathak, NAROSA Publishing House, New Delhi 1996) pp 170-184.
5. Channeling and Channeling Radiation in Semiconductor Superlattices (with A.M. Siddiqui, L.N.S. Prakash Goteti and V. Harikumar), *Semi-Conductor Materials and Devices* eds. O.P. Agnihotri and V.K. Jain, Narosa Publishing House New Delhi (1998) pp 241-258.
6. Ion Channeling in Semiconductor Superlattices, (with AM Siddiqui et al) in *Condensed Matter Physics* eds. B K Agrawal and Hari Prakash, Narosa Publishing House New Delhi (1999) pp 89-94.
7. Theory of Charged Particle Probes to Modern Advanced Materials (with S V S Nageswara Rao, et al) in *Accelerator Based Research in Basic and Applied Sciences* Eds A Roy and D K Avasthi,, Phoenix Publishers Delhi (2002) pp 173-184.
8. Ion Irradiation Effects and Ion Beam Studies of Semiconductor Multi Layers (with SVS Nageswar Rao et al) in *Physics at Surfaces and Interfaces* Ed. B N Dev World Scientific (2003) pp 158-170.
9. Swift Heavy Ion Modification of Semiconductor Heterostructures (with S Dhamodaran et al) *Rad Effects & Defects in Solids* 162, 131 (2007)
10. Study of GaAs and GaN based heterostructure Surfaces and Interfaces using ion beams and other complementary techniques (with N Sathish et al) *Vacuum* 82, 911 (2008)
11. Ion Beams for Synthesis and Modifications of Nanostructures in Semiconductors (with SVS Nageswara Rao and N Srinivasa Rao et al) MRS 2011 spring meeting Symposium II on "Ion Beams--New Applications from Mesoscale to Nanoscale" 1354, 79 (2011)

BOOK

1. Synthesis and Characterization of nc-Ge using Ion Beam techniques (N Srinivasa Rao and Anand P Pathak.) LAP LAMBERT Academic Publishing GmbH & Co. KG, Germany 2011

BOOKS (Edited)

1. Atomic and Molecular Physics, NAROSA Publishing House, New Delhi, (1992).
2. Advances in Theoretical Physics, NAROSA Publishing House, New Delhi, (1996).
3. Atomic Collisions in Solids, Elsevier Science Netherlands, (2003). **NIMB 212**
4. Ion Beam Studies of NanoMaterials (REDS Vol **162 Nos. 3-4**), Taylor & Francis UK (2007)
5. Ion Beam Analysis (IBA 2007) Elsevier Science Netherlands (2008) **NIMB 266 No. 8**
6. Swift Heavy Ions in Materials Engineering and Characterization (SHIMEC 2010) (REDS Vol **166 Nos. 8-9**) Taylor & Francis UK (2011)
7. Advances in Ion-Beam Techniques and Applications (IMRC-2011) (REDS Vol **167 Number 8**) Taylor & Francis UK (2012)
8. Swift Heavy Ions in Materials Engineering and Characterization (SHIMEC 2012) (REDS Vol **168 Nos 7-8**) Taylor & Francis UK (2013)

Centre for Biochemistry & Microbial Sciences

Central University of Punjab

No. 307/BSS/15
June 16, 2015

Office Note

Please find attached herewith the CV of Prof. Praveen Kumar Sharma presently working with the Department of Food and Agriculture, University of Manitoba, Winnipeg, Canada. Professor Sharma, a Ph.D. in Microbiology had a distinguished carrier at the Department of Microbiology, CCS Haryana Agricultural University, Hisar as a Professor prior to his placement with the University of Manitoba in Canada since January 2009.

Prof. Sharma has wide international exposure and he has rich experience in Microbial Genomics, proteomics and metabolic engineering including production of bioplastics which is reflected in his nearly 100 publications. Prof. Sharma had also been actively involved in teaching of Microbiology and student guidance at CCS Haryana Agricultural University, Hisar during October 1983 to August 2008.

I strongly feel that Prof. Sharma may be useful in giving lead to the faculty of newly established Centre for Biochemistry and Microbiology as a Professor.

If agreed, he may be invited to work at the Centre for Biochemistry & Microbial Sciences of this university.

R. G. Saini
(R. G. Saini) 15/6/15

Invited Professor and Coordinator
Centre for Biosciences

Submitted for consideration please

Rama Rao
Dean Academic Affairs

Put up in the agenda of next meeting

Chitra
Vice Chancellor 23/6/15

PARVEEN KUMAR SHARMA PhD
22 Kingfisher Crescent, Winnipeg, MB, R3Y 0C7

Phone/Fax: (204) 284 6643
pksharmajan11@yahoo.com

CAREER HIGHLIGHTS

- Worked as a microbiologist/molecular biologist/biotechnologist for 28 years in India, Germany, USA and Canada
- Trained molecular Biologist with experience in cloning and expression of genes
- Developed technology for Bioplastics production and developed recombinants of *Pseudomonas putida*.
- Developed gene transfer methods for biofuel (Hydrogen and ethanol producing bacteria (Clostridia)
- Deposited whole genome sequence of *P.putida* LS46 and *P.monteillii* MO2, bioplastic-producing bacteria with NCBI
- Actively involved in undergraduate and graduate teaching
- Guided three Ph.D and seven M.Sc students

EDUCATION

M. Sc. in Microbiology 1977-79
Punjab Agricultural University, India

Ph.D. in Microbiology 1979-83
Punjab Agricultural University, India

Post Doctoral Fellowship in Molecular Biology 1988-90
University of Bielefeld, Bielefeld, Germany
under German Academic Exchange Programme (DAAD)
(Worked with Prof Alfred Puehlor)

Post Doctoral Fellowship in Molecular Microbiology 1997-99
University of California, Davis, USA
under Rice Biotechnology Programme of Rockefeller Foundation, USA
(Worked with Prof. P.C. Ronald)

DAAD Exchange Visit: Microbial Ecology 2003
Rhineland Westfalische Technical Hochschule (RWTH), Aachen,
Germany under German Academic Exchange Programme (DAAD)

Trainings

- Training in "Microbial Whole Genome Analysis" from National Microbiology Laboratory, Winnipeg, MB, Canada
- Training in "Microbial Genomic and Metagenomics" from DOE Joint Genome Institute, Watson Creek, California, USA

EMPLOYMENT HISTORY

Assistant Professor (Microbiology) Department of Microbiology, CCS Haryana Agricultural University, India	Oct., 1983-Sept.1996
Associate Professor (Microbiology) Department of Microbiology, CCS Haryana Agricultural University, India	Oct.1996-Sept, 2004
Professor (Microbiology) Department of Microbiology, CCS Haryana Agricultural University, India (Opted for Volunteer Retirement Scheme)	Oct. 2004 - Aug., 2008
Research Associate Biosystems Engineering Department of Food and Agriculture University of Manitoba, Winnipeg	Jan., 2009- Nov., 2014 May, 2015- continued

ADMINISTRATIVE EXPERIENCE

- Lead scientist of research projects funded by Indian Council of Agricultural Research (ICAR) and Department of Science & Technology (DST) and Department of Biotechnology, Govt. of India
- Worked as a Principal Investigator of network work project "Application of Microorganisms in Agriculture and Allied Sector"
- Worked as a Principal Investigator of Department of Science and Technology, Govt. Of india funded project "Monitoring the release of genetically modified *Mesorhizobium ciceri* in the environment"
- Worked as a Principal Investigator of Defence Research and Development Organization funded project "Production of polyhydroxybutyrate utilizing agricultural byproducts.
- Associate Editor for Indian Journal of Microbiology published by Springer Verlag published for 4 years
- Supervised a team of Doctoral, Graduate students and Research Associates
- Preparation and presentation of technical programme, project reports and Annual Reports to funding agencies
- Handled budget, purchasing and inventory management
- Edited books, prepared instructional practical manual for undergraduate students

Recent job

At present I am working under NSERC project on degradation of petroleum products. We have isolated some bacteria degrading alkanes and BTEX. These bacteria will be developed as bioremediation agents

Previous job

I worked in Genome Canada project "Microbial Genomics for Biofuels and Co-Products from Biorefining Processes" with Dr. David Levin from Dec. 2008 to Nov.30 2014. I was associated with the metabolic engineering of aerobic anaerobic cellulose degrading bacterium *Clostridium thermocellum* for biofuel (hydrogen and ethanol) and bioplastics production. I was also working on construction of recombinant strains *P.putida* LS46 and *C.necator* for bioplastics (polyhydroxyalkanoate) production from industrial byproducts. During this period I isolated new bacteria for PHAs production from industrial byproducts like biodiesel glycerol, glycerol bottom and biodiesel fatty acids and waste fryer oil. I developed recombinants of *P.putida* and *C.necator* for production of copolymer of mcl-PHA and scl-PHA. Proteomic and transcriptomics analysis of *P.putida* and *C.necator* grown on different substrates was carried out to understand the expression of different and proteins under different growth conditions. I have published three research papers out of this work as first author and two as second author. Two other research paper are under preparation.

Past job

I have worked as a microbiologist at Haryana Agricultural University Hisar, India from 1983-2008. I joined as Assistant Professor (Microbiology) in 1983 and was promoted as Professor (Microbiology) in 2004. It was an agricultural university therefore I worked with microorganisms which can enhance crop yield. I developed new strains of *Rhizobium*, *Azotobacter* and *Pseudomonas* as biofertilizers. I introduced genetic markers like *gusA*, *gfp* and *luc* gene into bacteria for their monitoring in the environment. I developed high chitinase producing mutants of *Pseudomonas chlororaphis* as biocontrol agents for fungal pathogens. My work is reflected in my publications. I developed PCR based method using *nodC* gene primers to track *Rhizobium* in the soil and rhizosphere without their isolation. Using *nifH* primers soil was amplified to study the community structure of nitrogen fixing bacteria in the soil. I isolated new endophytic bacteria from wheat and studied their colonization after labeling the bacteria with *gfp* protein.

I was actively involved in teaching at undergraduate and graduate students. I guided 10 M.Sc and Ph.D students and was member of Advisory committee of 35 students.

Teaching experience

Course Title	Course No.	Credit	Student
Elementary Microbiology/ Introductory Microbiology	Micro 301/101	2+1	B.Sc (Agriculture, Home Sciences)
Bacterial and Viral Genetics	Micro 503	2+1	MSc. (Microbiology, Genetics, Biochemistry, Biotechnology)
Regulation of Microbial Biosynthesis	Micro 603	3+0	Ph.D (Microbiology, Biochemistry)
Advance Soil Microbiology	Micro 604	3+0	Ph.D (Microbiology, Biochemistry)

Project completed as Principle Investigator

Title	Funding Agency	Total budget	Year of start
Microbial diversity under temperature and moisture stress conditions (2005- continue)	Indian Council of Agricultural Research (ICAR)	INR 75,000,000	2005
Monitoring effect of release of genetically modified <i>Mesorhizobium ciceri</i> on soil microbial community structures (2005-2008)	Department of Sci. & Techol. (DST)	INR 1,100,000	2005
All India Network project on biological nitrogen fixation (2000- 2008)	Indian Council of Agricultural Research ICAR)	INR 2,000,000	2000
Production of poly hydroxyl butyrate by <i>Rhizobium</i> using agricultural by products (2004-2007)	Defence Research & Development Organization	INR 1,000,000	2004
Molecular basis of host specificity determinants in <i>Rhizobium ciceri</i> - chickpea (<i>Cicer arietinum</i>) 1994-1997	Department of Biotechnology (DBT)	INR 1,000,000	1994

Patent filed

- 1 Quality control kit for biofertilizers
(Department of Biotechnology, Govt. of India)
- 2 Production of polyhydroxybutyrate utilizing agricultural byproducts
(Department of Biotechnology, Govt. of India)

3 Production of hydroxy acids from stillage
(Serial No. 61/418,823, Govt. of Canada)

Strain deposited with IDAC

- Pseudomonas putida* LS5 IDAC 181110-01. 5.
- Pseudomonas putida* LS39 IDAC 181110-02. 6.
- Pseudomonas putida*. LS46 IDAC 181110-03.
- Pseudomonas putida* 502 (PHA depolymerase knockout mutant).

DNA sequence deposited with National Centre for Biotechnology Information

1. Whole Genome of *P.putida* LS46, a PHAs producing strain deposited with NCBI (ALPV02000000)
2. A novel *P.montellii* MO2 strain utilizing waste fryer oil for PHA production was isolated and its whole genome sequence deposited with NCBI (Acc. No. JFBC00000000)
3. A fragment containing PHA genes of *Pseudomonas putida* LS46 was deposited with NCBI (GenBank accession HQ662163)
4. Deposited 16S rDNA sequences of new polyhydroxyalkanoate producing bacteria with NCBI (GenBank Acc.No JN185336-JN185341)

Filed of Specialization

Molecular Biology, Microbial ecology, Environmental Microbiology

PROFESSIONAL DEVELOPMENT

- Life Member Association of Microbiologist of India (AMI)
- Member of Canadian Society of Microbiology
- Member of Canadian Society for Biosystems Engineering, MB, Canada

REFERENCES

Prof. D.B.Levin
Department of Biosystems Engineering,
University of Manitoba,
Winnipeg, MB, Canada
levindb@cc.umanitoba.ca (204) 474 7429

Dr. Richard Sparling
Department of Microbiology
University of Manitoba,
Winnipeg, MB, Canada
Richard_Sparling@umanitoba.ca (204) 474-8320

Recent publications from University of Manitoba

Jilagamazhi Fu, Parveen Sharma, Vic Spicer, Oleg V. Krokhin, Xiangli Zhang, Brian Fristensky, Nazim Cicek, Richard Sparling, David. B. Levin (2015) Substrate-specific medium chain length polyhydroxyalkanoate synthesis by *Pseudomonas putida* LS46 on biodiesel-derived waste streams is a result of variations in genes and/or gene products expression. PLoS One (submitted)

Carere C, Sharma PK, Cicek N, Sparling R and Levin DB. (2015). Advances in the development of a conjugative plasmid transfer system for *Clostridium thermocellum* ATCC 27405. Applied Microbiol Biotechnol (submitted)

Sharma, P.K., Jilagamazhi Fu, Spicer, V., Krokhin, O.V., Zhang, X., Fristensky, B., Wilkins, J.A., Cicek, N., Sparling, R., Levin. D.B. (2015). Biodiesel byproduct substrates and growth phase dependent changes in the proteome of *Cupriavidus necator* H16 during poly-(3-hydroxybutyrate) synthesis. PLoS one (In preparation)

Sharma, P.K., Fu, J., Zhang, X., Sparling R. and David B. Levin, D.B. (2015) A novel bacterium *Pseudomonas monteillii* MO2 for medium chain length polyhydroxyalkanoate production from waste fryer oil and biodiesel byproducts. In "Microbial Factories: Biodiversity, Biofuels, Biopolymers, Bioactive molecules and Waste treatment" Kalia V.K. (Ed)

Sharma, P.K., Jilagamazhi Fu, Sparling, R., Levin. D.B. (2015) *In silico* analysis of Type VI secretion systems in *Pseudomonas putida* LS46 in comparison to *P. putida* strains and other pathogens. Book chapter in *Pseudomonas : Molecular and Applied Biology*. Edited by R.S. Kahlon.

Jilagamazhi Fu, Sharma, P.K., Spicer, V., Krokhin, O.V., Zhang, X., Fristensky, B., Wilkins, J.A., Cicek, N., Sparling, R., Levin. D.B. (2015). Effects of impurities in biodiesel production-derived glycerol on growth, mcl-PHA synthesis, and expression of heavy metal resistance genes and gene products in *Pseudomonas putida* LS46. Applied Microbiol Biotechnol 99(13): 5583-92

Sharma, P.K., Fu, J., Zhang, X.L., Fristensky, B.W., Sparling, R. & Levin, D.B. (2014) Genome features of *Pseudomonas putida* LS46, a novel polyhydroxyalkanoate producer and its comparison with other *P. putida* strains. *AMB Exp* 4, 37.

Sharma, P.K., Fu, J., Zhang, X.L., Fristensky, B.W., Davenport, K., Chain, P.S.G., Sparling, R. & Levin, D.B. (2013) Draft genome sequence of medium-chain-length polyhydroxyalkanoate-producing *Pseudomonas putida* strain LS46. *Genome Announc* 1, e00151-13.

Sharma, P.K., Fu, J., Cicek, N., Sparling, R. & Levin, D.B. (2012). Kinetics of medium-chain-length polyhydroxyalkanoates (mcl-PHAs) production by a novel isolate of *Pseudomonas putida* LS46. *Can J Microbiol* 58, 982-989.

PARVEEN KUMAR SHARMA

Publications from previous work

International

- 1 Pathak DV, Kumar M, Sharma SK Kumar N and **Sharma PK**. 2007. Crop improvement and root rot suppression by seed bacteriazation in chickpea. Arch Agron. Soil Sci. 55: 1-7.
- 2 Sarita S, **Sharma PK**, Priefer UB and Prell J. 2005 Direct amplification of rhizobial *nodC* sequences from soil total DNA and comparison to *nodC* diversity of root nodule isolates. FEMS Microbiol Ecol. 54: 1-11.
- 3 Bhatia R, Dogra RC and **Sharma PK**. 2002 Construction green fluorescent protein marked *Bradyrhizobium* for ecological studies. J. Appl. Microbiol. 93: 835-839
- 4 **Sharma PK**, Upadhayay KK, Kambhoj DV and Kukreja K. 2002. Pre-incubation of *Mesorhizobium ciceri* with flavonoids improves its nodule occupancy. Foila Microbiol. 47: 541-544
- 5 Shen Y, **Sharma PK**, Da Silva FG and Ronald PC. 2002. The *Xanthomonas oryzae* pv *oryzae* *raxP* and *raxQ* genes encodes an ATP sulfurylase and APS kinase that are required for AvrXa21 avirulence activity. Mol. Microbiol. 44:37-48
- 6 **Sharma PK**, da Silva FG, Shen Y and Ronald PC. 2000. Improvement of conjugation method for *Xanthomonas oryzae* pv. *oryzae* strain DY89031 to identify *avrXa21* clones. IRRN 25: 24
- 7 Garg B, Dogra RC and **Sharma PK**. 1999. High efficiency transformation of *Rhizobium leguminosarum* by electroporation. Appl. Environ Microbiol. 65: 2802-2804
- 8 Srivastva P, **Sharma PK** and Dogra RC. 1997. Inducers of nod genes of *Rhizobium* sp. (*Cicer*). Microbiol. Res. 154: 49-54
- 9 Kambhoj DV, **Sharma PK** and Kundu BS. 1996. Direct monitoring of *Rhizobium* sp. (*Cicer*) in nodule and soil using *lacZ* fusions. Biol. Fert. Soil. 21: 309-313.
- 10 Garg FC, Bharti R and **Sharma PK**. 1996. Isolation of antibiotics sensitive mutant of *Azotobacter chroococcum* by ascorbic acid treatment. Lett. Appl. Microbiol. 24:136-138

- 11 Toky OP, Kaushik N and **Sharma PK**. 1995. Genetic variability in progenies of *Acacia nilotica* for nitrogen fixing ability. *Silvae Genetica*: 44 161-165
- 12 Toky OP, Beniwal RS and **Sharma PK**. 1994. Interaction between *Rhizobium* inoculation and nitrogen application on growth and nodulation of *Acacia nilotica*. *J. Arid Environ.* 27: 49-54.
- 13 Beniwal RS, **Toky OP** and Sharma PK. 1993. Genetic variability in symbiotic nitrogen fixation between provenances of *Acacia nilotica*. *Genet. Resource Crop Evol.* 42: 7-13
- 14 Jording D, **Sharma PK**, Engelke T, Schmidt R and Puehler A. 1992. Regulatory aspect of C4-dicarboxylate transport in *R. meliloti*. Transcriptional activation and dependence on effective symbiosis. *J. Plant. Physiol.* 141:18-29
- 15 Khurana A.L, **Sharma PK** and Dudeja SS. 1991. Influence of host, moisture and native rhizobial population on nodule occupancy of Chickpea (*Cicer arietinum*) *Zentblatt. Mikrobiol.* 146: 137-141
- 16 **Sharma PK**, Anand RC and Lakshminarayana K 1991 Construction of Tn5 tagged mutants of *Rhizobium* sp. (*Cicer*) for ecological studies. *Soil Biol. Biochem.* 23: 881- 885
- 17 Bala N, **Sharma PK** and Lakshminarayana K. 1990. Nodulation and nitrogen fixation by salinity tolerant rhizobia in association with tree legume. *Agric Ecosys. Environ.* 33: 33-46.
- 18 **Sharma PK** and Lakshminarayana K 1990. Physical characterization of plasmid of cowpea rhizobia. *Microbios Letter* 43: 73-79.
- 19 **Sharma PK** and Lakshminarayana K 1989 Effect of high temperature plasmid curing of *Rhizobium* sp. (*Canjanus*) in relation to nodulation in pigeonpea (*Canjanus cajan* L. Millsp.) *Biol. Fert. Soil* 8:73-79.
- 20 **Sharma PK**, Garg FC and Lakshminarayana K 1988 Induction of stem nodule in pigeonpea. *J. Agric Sci.* 110:375-376.
- 21 **Sharma PK** and Chahal VPS 1988. Studies on NH₄⁺ derepression and NH₄⁺ excretion by *Azotobacter chroococcum*. *Zentblatt. Mikrobiol.* 143: 67-72.
- 22 **Sharma PK** and Chahal VPS 1985 Azide resistant and NH₄⁺ derepression of azide resistance mutants of *Azotobacter*. *Zentblatt. Mikrobiol.* 140: 575-578
- 23 Chahal VPS and **Sharma PK** 1982 Use of lentil nodules as antigen for strain identification of *R. leguminosarum*. *Zentblatt Mikrobiol.* 137: 118-120

Reviews

1. **Sharma PK**, Dogra RC and Kundu BS 1993 Molecular basis of host specificity in *Rhizobium*-legume symbiosis. *Biotech Adv.* 11:741-779 (Review)
2. Dar GH, Anand R C and **Sharma PK** 1993. Genetically engineered microorganisms to rescue plants from frost injury. *Adv. Biochem. Engg. Biotech* 150: 1-19 (Review).

Book Chapters

1. Puehler A, Engelke T, Jording D and **Sharma PK** 1990 Regulation of the C4 dicarboxylate transport in free living and symbiotic *Rhizobium meliloti*. In: Nitrogen Fixation: Achievements and Objectives. Gresshoff PM, Roth F, Stacey G and Newton WE (eds.) Chapman and Hall, New York. pp. 449-450

National

- 1 Kamboj, DV, Bhatia, R, Pathak DV and Sharma PK 2010. Role of *nodD* gene product and flavonoid interactions in induction of nodulation genes in *Mesorhizobium ciceri*. *Physiol. Mol. Biol. Plants* 2010; 16(1) : 69-77
- 2 Sunita, S. Kapoor KK, Goyal S and **Sharma PK**. 2010. Establishment of *lacZ* marked strain of phosphate solubilizing bacterium in the rhizosphere and its effect on plant growth in mungbean. *Ind. J Microbiol* 50 (Suppl 1): S117-S121
- 3 Sarita S and **Sharma PK** 2008 Molecular diversity among diazotrophs in arid zone soils of Haryana. *Current Sci.* 94:109-115.
- 4 Sarita S, Gera R, Priefer, UB and **Sharma PK** 2006 Bacterial community in rhizosphere of different crop species studied by terminal restriction fragment length polymorphism (t-RFLP). *Ind. J. Microbiol.* 46: 229-236.
- 5 Yadav E, **Sharma, PK**, Sharma SK and Pathak D V 2007 Effect of *Tn-5* mutagenesis on chitinolytic activity of *Pseudomonas maltophilia* PM-4 for root rot control in clusterbean (*Cyamopsis tetragonoloba*). *Ind J. Microbiol.* 47: 72-76.
- 6 Kohli U Kapoor KK, Dogra RC and **Sharma PK** 2006 Integrated control of root rot pathogens of sunflower by a fungal antagonist bacterium *Pseudomonas maltophilia*. *J. Plant Dis. Sci.* 1: 168-170
- 7 Kohli U, Dogra RC, Kapoor KK and **Sharma PK** 2006 Chitinolytic *Pseudomonas maltophilia* antagonistic to root-rot pathogens of sunflower (*Helianthus annuus*). *Ind. J. Microbiol.* 46: 45-49.

- 8 Bhatia, A., Gera, R, **Sharma P.K** and Kundu BS 2006 screening of phosphate solubilizing bacteria and their tagging with *lacZ* gene for strain identification. *Research on Crops*.7: 891-894
- 9 **Sharma, PK** and Sarita S and Prell J 2005 Isolation and characterization of endophytic bacterium related to *Rhizobium/Agrobacterium* from wheat (*Triticum aestivum* L) Roots. *Curr.Sci.*89: 608-610
- 10 **Sharma PK** and Kapoor KK 2005 Problems and perspectives of nitrogen fixing trees in agroforestry. *Proc. Indian Nat. Sci. Acad* B71: 145-161.
- 11 Rustogi N, Duhan JS and **Sharma PK** 2004. Survival and efficiency of temperature tolerant and temperature sensitive strains of *Rhizobium* sp. (*Acacia*). *Ind. J. Agroforestry*. 5: 123-127
- 12 Pathak DV, Gera R. and **Sharma PK** 2003 Tellurite resistance in *Azotobacter chroococcum*. *Ind. J. Microbiol.* 44: 218-221
- 13 Gera R, Pathal DV and **Sharma PK** 2003. Monitoring of *Azospirillum* using constitutively expressed *gfp* gene. *Ind.J. Microbiol.* 44: 223-225
- 14 **Sharma PK** 2003 Structure and function of *Rhizobium* genome. In Proc. Seminar on "50 years of DNA Research: Unfolding Biological Imperatives and mysteries". Behl RK, Chabra A & Satyavir (eds) CCSHAU, Hisar, pp 7-11
- 15 Kambhoj DV, Upadhyay KK and **Sharma PK** 2003 Characterization of *nodD* gene mutants of *R. ciceri*. *Physiol Mol. Biol. Plants*: 9 : 101-111
- 16 Badhwar S, Dogra RC and **Sharma PK** 2002 Symbiotic promiscuity among rhizobia nodulating tree legumes. *Ind. J. Agroforestry*. 4: 41-45
- 17 Sarita S, Pathak DV, Kumar V and **Sharma PK** 2002 Nitrate tolerance, nitrogen fixation and plant growth promotion by *Azospillum*- A review. *Agric. Rev.* 23: 31-38.
- 18 **Sharma PK** and Gera R 2002 Genetic marker and their potential in quality control of biofertilizers. *Biofertil. Newlett.* 10 (1) 18-23.
- 19 Sarita S, Pathak DV, Anand RC and **Sharma PK** 2002 Biochemical studies of nitrate tolerant mutants *Azospirillum lipoferum*. *Physiol. Mol. Biol. Plants*. 8:1-6
- 20 Kukreja K, Dogra RC and **Sharma PK**. 2002 Symbiotic properties of Hup⁺, Hup- and complemented derivatives of *Rhizobium* sp. (*Sesbania*). *Ind. J. Microbiol.* 42 201-205
- 21 Gera R, Anand RC, Kundu BS and **Sharma PK** 2002 Problem and solution to P availability in soil by phosphotika. *Haryana Farming*. 22:5-6.

- 22 **Sharma PK** and Gera R 2002 Role of endophytic bacteria in crop production. In "Biofertilizer Production Technology & Application" Sindhu SS (ed) SC& P Centre CCS HAU, Hisar, pp 22-3
- 23 Pathak DV, Kapoor KK and **Sharma PK** 2002 Effect of climatic conditions on soil organic matter and microbial properties in different layers of soil. *Geobios* 29:45-48
- 24 **Sharma PK**, Srivastva P, Upadhyay KK, Dogra RC and Kundu BS 2000 Effect of combined nitrogen on the expression of *nod* genes of *Rhizobium* sp. (*Cicer*). *Ind. J. Microbiol.* 40:125-129
- 25 Kukreja K, **Sharma PK** and Dogra RC 1998 Localization of *hup* genes of *Rhizobium* sp. (*Sesbania*). *Ind. J. Exp. Biol.* 209-212.
- 26 **Sharma PK**, Kambhoj DV, Upadhyay KK and Dogra RC 1998 Construction of genetically engineered *R. ciceri* for ecological studies. *Proc Nat. Sym. "Frontier in Applied and Environment Microbiology"*. CUSAT, Cochin. pp 119-122
- 27 Bharti R, Garg FC and Sharma PK 1998 Interaction of ascorbic acid with antibiotics in *Azotobacter chroococcum*. *Nat. Acad, Sci. Lett.* 21: 269-273
- 28 Upadhyay KK, Kambhoj DV and **Sharma PK** 1997 Host specificity of *R. ciceri* - chickpea symbiosis as revealed by Tsr and Had bioassays. *Folia Microbiologica* 42: 381-384
- 29 Srivastva P, **Sharma PK** and Dogra RC 1997 Identification of *nod* genes of *R. ciceri*. *Ind. J. Microbiol.* 37: 139-143.
- 30 **Sharma PK**, Kambhoj DV, Rustogi N and Dogra RC 1997 A simple visual method to study nodule occupancy of *Rhizobium* marked with *gusA* gene. *Ind. J. Microbiol.* 37: 91-94.
- 31 Garg R, **Sharma PK** and Kundu BS 1996 Role of *Azospirillum exopolysacchiredes* in root colonization of pearl millet (*Pennisetum americana*). *Ind. J. Microbiol.* 36: 193-196
- 32 Rustogi N, Badhwar S, **Sharma PK** and Dogra RC 1996 Temperature tolerance and efficacy of *Rhizobium* sp. (*Acacia*) in symbiosis with *A. nilotica*. In "Resource Management in Agriculture". Dogra RC, Behl RK and Khurana AL (eds) CCS HAU, Press, Hisar and MMB, New Delhi. pp 107-112
- 33 Upadhyay KK, **Sharma PK** and Dogra RC 1996 Nodulation and nitrogen fixation by *Rhizobium* sp (*Acacia*) in the presence of heavy metals. In "Resource Management in Agriculture". Dogra RC, Behl RK and Khurana AL. (eds) CCS HAU Hisar and MMB, New Delhi. pp. 32-37

- 34 **Sharma PK** and Kundu BS, 1996 Plant response to phytohormones released by diazotrophs. *Environ. Ecol.* 12:749-751
- 35 Devvrat, **Sharma PK** and Kundu BS 1995 Construction of *Rhizobium* sp. (*Cicer*) for ecological studies. *Ann. Biol.* 10: 86-97
- 36 **Sharma PK**, Devvrat, Garg RK, Srivastva P and Kundu BS 1995 Ecological studies using genetically marked diazotrophs. In "Impact of Modern Agriculture on Environment." Vol. III. Arora SK, Behl R and Tauro P and Joshi UN. (eds) HAU press, Hisar. pp. 165-169
- 37 Garg R, Kambhoj Dev, **Sharma PK** and Kundu BS 1995 Ecological monitoring of *Azospirillum* tagged with *lacZ*. *Ind. J. Microbiol.* 35:121-125
- 38 Dudeja SS, Khurana AL, **Sharma PK**, Dogra RC and Garg FC 1995 Symbiotic effectivity of hup+ and hup- rhizobia in mungbean and urdbean under field conditions. *Ind. J. Microbiol.* 35:189-194
- 39 **Sharma PK**, Upadhyay KK, Srivastva P 1995 Nodulation and nitrogen fixation ability of wild species of *Cicer*. *Legume Res.* 17:229-230
- 40 Dogra RC and **Sharma PK**. 1994 Role of genetically engineered rhizobia in agriculture. In: "Biology of Nitrogen Fixing Organisms". A.B. Prasad and A. Vaisapalayam (eds) Scientific Pub. Jodhpur. Pp 223-240 (Review)
- 41 Lakshminarayana K and **Sharma PK**. 1994. Molecular mechanism of nodulation in *Rhizobium*-legume symbiosis. "In Biology of Nitrogen Fixing Organisms". A.B. Prasad and A Vaisapalayam (eds) Scientific Pub. Jodhpur. pp 115-177
- 42 Duhan JS, **Sharma PK** and Lakshminarayana K. 1994 Allelopathic effect of *Acacia nilotica* on nodulation and nitrogen fixation by *Rhizobium* sp (cowpea). *Allelopathy J.* 1: 47-52
- 43 Beniwal RS, **Sharma PK** and Toky OP 1992 Effect of VA mycorrhizal fungi and phosphorus on growth and nodulation of *Acacia*. *Crop Res.* 5: 172-176
- 44 Suneja S, **Sharma PK** and Lakshminarayana K. 1992 Production of hydroxymate type of siderophores by *Rhizobium* sp. (*Cicer*). *Ind. J. Microbiol.* 32: 181-183
- 45 Chahal VPS, Verma UK and **Sharma PK** 1985 Genetic marker for drug resistance in *R. leguminosarum*. *J. Res. (Pau)* 19:405-407
- 46 Chahal VPS and **Sharma PK** 1991. Relative behaviour of four chickpea cultivars for nitrogen fixation and nitrogen utilization. *Crop Improv.* 18: 46-48
- 47 **Sharma PK** and Khurana AL. 1988 Efficacy and competition between effective and ineffective pigeonpea-*Rhizobium*. *Ind. J. Microbiol* 28:136-139

- 48 **Sharma PK**, Dey S. K. and Chahal, VPS. 1986. *In vitro* interaction between phytopathogens and *Azotobacter* spp. *Ind. J. Phytopath.* 39:117-119
- 49 Vashishat R K, Yadav, AS, **Sharma P K** and Khurana AL.1986. Nitrogen fixing efficiency of sodium azide resistance strains of slow growing mungbean *Rhizobium*. *Ann. Biol.* 2: 125-129
- 50 Khurana, AL and **Sharma PK** 1986 Nitrogenase and nitrate reductase profile of chickpea (*Cicer arietinum* L.) inoculated with different strains of *Cicer -Rhizobium*. *Ann. Biol.* 2: 82-84
- 51 Chahal VPS, Khullar S and **Sharma PK** 1986 Studies of *A. chroococcum* and *A. vinelandii*. *Ind. J. Microbiol* 22: 34-36
- 52 Chahal VPS, Verma UK and **Sharma PK** 1985 Serogrouping of *R. leguminosarum* strain isolated from different soils. *Ind. J Microbiol.* 25:233- 235.
- 53 **Sharma PK** and Chahal.VPS 1985 Occurrence of growth regulator producing *Azotobacter* strains in Punjab soil. *J. Res. (PAU)* 23: 95-97
- 54 **Sharma PK** and Chahal VPS 1983 Effect of Mo and B on nodulation and dry matter of lentil. *J. Res. (PAU)* 20: 563 – 566
- 55 **Sharma P K**, Chahal VPS and Rewari RB 1982. Studies on relationship between chlorophyll content and nitrogen fixation in lentil nodulated by different strains of *R. leguminosarum*. *Ind. J. Microbiol.* 22. 291-292

Book/Manual/Book Chapters

1. **Sharma PK**, Sarita S and Pathak DV 2007 Biodiversity of Rhizobia in the Soils of Haryana. In *Agriculturally Important Microorganisms*. (Arora D.K. ed)
2. **Sharma PK**, Kapoor KK, Gera R and Bundu BS 2005 Laboratory manual Experiments in Molecular Microbiology. CCS Haryana Agricultural University, Hisar – A Practical Manual.
3. Kapoor K.K., **Sharma PK.**, Dudeja SS. and Kundu BS (Eds.) Management of Organic Wastes for Crop Production. HAU Press, Hisar. 2005
4. Gera R, Anand RC, Pathak DV and **Sharma PK** 2005 Formulation of mixed biofertilizer and its effect on pearl millet and wheat. In: Management of Organic Wastes for Crop Production. Kapoor K.K., Sharma PK., Dudeja SS and Kundu BS (Eds.) HAU Press, Hisar. pp. 223-227

5. Jakhar P, Singh J, Narwal RK, **Sharma PK** and Gera R 2005 Nitrogen economy through biofertilizers in conventional and bed planted wheat. In: Management of Organic Wastes for Crop Production. Kapoor K.K., Sharma PK., Dudeja SS and Kundu BS (Eds.) HAU Press, Hisar. pp. 229-234.
6. Anand RC, Gera R and **Sharma PK** 2005 Synergistic effect of organic manures and biomix of free living and associative diazotrophs in wheat. In: Management of Organic Wastes for Crop Production. Kapoor K.K., Sharma PK., Dudeja SS and Kundu BS (Eds.) HAU Press, Hisar. pp. 281-286.
7. **Sharma PK** 2005 Effect of elevated temperature and moisture stress on bacterial community structures of soil. In Crop production in stress conditions: Genetic and Management Options. JNKVV Jabalpur, India, pp 473-478.
8. **Sharma PK**, Shen Y and Ronald PC 2001. Identification of *raxP* and *raxQ* genes involved *avrXa21* activity of *Xanthomonas oryzae* pv *oryzae* Philippines race 6. In Proc. National rice Biotechnology Network Meeting 21-25 Oct. 2001 held at Aurangabad, India. pp 91-94
9. Dogra RC, Kukreja K and **Sharma PK** 1995 Role of uptake hydrogenase in legume productivity. In "Plant Microbes Interactions in Sustainable Agriculture". Behl R, Khurana AL and Dogra RC (eds) HAU Press. pp 158-165.
10. Dogra RC, Kukreja K and **Sharma PK** 1995 Uptake hydrogenase system: genetics, regulation and practical significance. In "Perspective in Microbiology". Kahlon RS (ed) Nat. Agric. Tech. Inform. Centre, Ludhiana

My Teaching Philosophy

As a part of my teaching philosophy, I consider the following six components to be of utmost importance:

1. **Course material planning and preparation:** I design my course syllabus by focusing on objective and the prerequisites for the course. I use all possible sources such as books, web, research papers, and technical magazines to prepare the course material. I try to discover intriguing examples to complement the theoretical ideas and concepts. I believe in supplying some of the course material to students well before the class, so that they come to class with a better perspective.
2. **Lecture delivery:** The objective of my teaching is very simple, my lecture should benefit the students otherwise it is useless. I like to share my knowledge with the students and I also like to gain from my students. I do not believe in one-way teaching in which a lecturer speaks and students simply listen or sleep. I make my lecture more interactive and interesting by having proper involvement of students. To present a complex idea in a simple way is an art of teaching and I try to achieve this by giving relevant examples and demonstrations. I often take feedback from the students about the pace of my lecture and I adjust it accordingly.
3. **Teacher-student relationship:** I also find it important to foster a relationship with my students. The first day of class I convey my message to the students to be comfortable with me. It helps them in clarifying their doubts and difficulties. I encourage students to express their ideas. Teaching goes beyond working with students in the classroom; it is also important to be available to students outside of class. I also invite the students for informal meetings outside the class to discuss their problems. It has been my experience that if one takes an interest in a student, the student becomes more interested in the class and more readily seeks help for topics with which he/she is struggling.
4. **Evaluation:** Assessment of student performance is a key aspect of teaching, and it is absolutely essential to employ methods of assessment that are honest and fair, and that reflect the sincerity and commitment of the students toward learning. My assessment methods will be aimed to check how the students apply their theoretic knowledge to solve realistic practical problems. In addition to evaluation of students, I truly put myself before my students for evaluation. I give them full freedom to write comments and suggestions on my teaching, which helps me in improving myself.
5. **Knowledge up gradation:** Teaching is a dynamic profession. Consequently, I find it important to remain professionally active by participating in seminars and conferences, maintaining an active research agenda, and developing consulting relationships both within and outside of the academic community. This provides me

12/

PARVEEN KUMAR SHARMA

with the opportunity to return to the classroom with new ideas and vibrancy for the discipline. It also provides me with better skills to be a mentor and facilitator, and potentially incorporate students into the research and consulting process.

6. **Use of web in teaching:** The use of web in teaching is proving to be an effective tool. I like to use course web sites and virtual learning environment for teaching. It makes very easy for me to communicate and interact with the students. The students feel also comfortable to express themselves and to raise their queries on discussion forum.

How will I contribute as a teacher?

As a teacher, I can contribute to the department in the following aspects:

- With over 24 years of teaching experience, I am capable of teaching a range of subjects offered by the department, In addition, I have capability to introduce new courses: Molecular Microbiology for food production and Microbial Biotechnology
- I will strongly support and contribute toward the development of new graduate research programs

CENTRAL UNIVERSITY OF PUNJAB

INTERNAL QUALITY ASSURANCE CELL (IQAC)

MINUTES OF IQAC MEETING

The first meeting of IQAC was held on the 9th of July, 2015 at 12.00 noon in the Conference Room, Administrative Block, Central University of Punjab, Bathinda. The following members attended this meeting:

1. Professor R. K. Kohli, Vice-Chancellor, CUPB (Chairman, IQAC)
2. Professor Gurmail Singh, Vice-Chancellor, Akal University, Talwandi Sabo
3. Prof. P. Ramarao, Dean Academic Affairs
4. Dr. Pankaj Khare, Registrar CUPB
5. Prof. R. G. Saini, Invited Professor
6. Prof. S. K. Bawa, Professor and Co-ordinator of Centre for Education
7. Dr. Anjana Munshi, Associate Professor, Centre for Human Genetics
8. Dr. Deepak Chauhan, Assistant Professor, Centre for Environmental Law
9. Dr. Sunil Mittal, Assistant Professor, Centre for EVST
10. Ms. Shweta Arora, Deputy Registrar
11. Sh. Dinesh Sood, GM HR Department, NFL, Bathinda
12. Mr. Gajendra Singh, Vishwakarma, Students' representative
13. Professor A. K. Dhawan, Director, IQAC (Member Secretary)

The agenda items discussed and the decisions taken are as below:

Agenda 1/2015/1: Curriculum Aspects:

- (a) *To examine the nomenclature and eligibility conditions of all degrees programmes*
- (b) *Curriculum enrichment from the point of employability and other related issues like value added and interdisciplinary courses*

The IQAC suggested:

1. Nomenclature should be as per the list of UGC.
2. Both the nomenclature of degrees and the specialization are to be reviewed.
3. Guidelines should also be formulated and SOPs prepared for nomenclature.

The IQAC nominated the following committee for this task:

1. Prof. P. Ramarao, Dean Academic Affairs, CUPB
2. Dr. S. K. Bawa, Professor, CUPB
3. Dr. Deepak Chauhan, Assistant Professor, CUPB
4. Prof. Gurmail Singh, Vice Chancellor, Akal University
5. Prof. A. K. Dhawan, Professor, CUPB (Convener)

Agenda 1/2015/2: Teaching-Learning and Evaluation:

(a) Improvement in evaluation system: review and reform of examination system

The IQAC nominated the following committee for this task:

1. Prof. P. Ramarao, Dean Academic Affairs, CUPB
2. Prof. A. K. Dhawan, Professor, CUPB
3. Prof. R. G. Saini, Invited Professor, CUPB
4. Controller of Examinations, CUPB
5. Prof. S. K. Bawa, Professor, CUPB(Convener)

(b) Feed-back mechanisms: Students Feedback and Faculty self-appraisal reports

The IQAC suggested:

1. Students feedback form should be made operative.
2. The PBAS form for the faculty is to be filled for the period 1st July to 30th June, each year.

The IQAC nominated the following committee for this task:

1. Prof. P. Ramarao, Dean Academic Affairs, CUPB
2. Prof. S. K. Bawa, Professor, CUPB
3. Dr. Anjana Munshi, Associate Professor, CUPB
4. Dr. Hans Raj Arora, Associate Professor, CUPB
5. Prof. A. K. Dhawan, Professor, CUPB (Convener)

Agenda 1/2015/3: Research, Consultancy and Extension

Resource mobilization for research: review of process of submission of externally funded projects

The IQAC decided that:

1. While preparing syllabi of the courses in CUPB, technical people from industries should be consulted.
2. Courses in each paper should be related to industrial know how. This will enhance the employability of students.
3. Seminars and training programmes by the industrial experts should become regular feature.
4. To prepare SOP for consultancy and mobilise/encourage the faculty for the same.

The IQAC nominated the following committee for this task:

1. Prof. P. Ramarao, Dean Academic Affairs, CUPB
2. Prof. A. K. Dhawan, Professor, CUPB
3. Prof. A. K. Jain, Professor, CUPB (for Research)
4. Dr. Monisha Dhiman, Assistant Professor, CUPB (for Research)
5. Dr. Sunil Mittal, Assistant Professor, CUPB (for Consultancy)
6. Dr. S. K. Bawa, Professor, CUPB (Convener)

Agenda 1/2015/4: Infrastructure and Learning resources

Review of use of major equipment, library and IT infrastructure.

The IQAC suggested:

1. Three separate committees for Library, Major Equipment and IT infrastructure are to be constituted.
2. The existing committees for the above mentioned will work for IQAC. Their constitution is as follows:

Library Advisory Committee

1. Prof. S. K. Bawa, Professor, CUPB
2. Prof. Desh Deepak Singh, Professor, CUPB
3. Dr. Sanjeev Kumar, Assistant Professor, CUPB
4. Dr. Felix Bast, Assistant Professor, CUPB
5. Dr. Anil Kumar Mantha, Assistant Professor, CUPB
6. Dr. Deepak Kumar, Assistant Professor, CUPB
7. Dr. Kiran K. Singh, Assistant Professor, CUPB
8. Prof. A. K. Dhawan, Professor, CUPB (Convener)

Major Equipment Committee: (CIL Committee)

1. Dr. J. Nagendra Babu, Assistant Professor, CUPB
2. Dr. Sunil Mittal, Assistant Professor, CUPB
3. Dr. Vikas Jaitak, Assistant Professor, CUPB
4. Prof. A.K. Dhawan, Professor, CUPB (Convener)

IT Infrastructure Committee:

1. Prof. R. G. Saini, Invited Professor, CUPB
2. Prof. A. K. Jain, Professor, CUPB
3. Dr. Felix Bast, Assistant Professor, CUPB
4. Er. Amandeep Singh Mann, System Analyst
5. Prof. S. K. Bawa, Professor, CUPB (Convener)

Agenda 1/2015/5: Students Support and Progression

Development of a mentoring system for students

The Committee suggested:

1. All the faculty members should be involved.
2. Students should be allotted to faculty/mentors of the same states.
3. Progress graph of every student should be maintained.
4. Informal counseling of the students

The IQAC nominated the following committee for this task:

1. Prof. R. C. Sharma, Dean Students Welfare, CUPB
2. Prof. R. G. Saini, Invited Professor, CUPB
3. Dr. Tarun Arora, Associate Professor, CUPB

4. Dr. Hans Raj Arora, Associate Professor, CUPB
5. Dr. Zameer Pal Kaur, Assistant Professor, CUPB
6. Dr. Sandeep Kaur, Assistant Professor, CUPB
7. Prof. A. K. Dhawan, Professor, CUPB (Convener)

Agenda 1/2015/6: Governance, Leadership and Management

(a) Structure of governance

(b) Quality improvement in administrative functioning of CUPB: E-Governance.

The IQAC suggested:

1. ERP should be designed for the purpose.

The IQAC nominated the following committee for this task:

1. Prof. P. Ramarao, Dean Academic Affairs, CUPB
2. Prof. A. K. Dhawan, Professor, CUPB
3. Dr. Pankaj Khare, Registrar, CUPB
4. Sh. Dinesh Sood, GM, HR Department, NFL
5. One person from computer department to be nominated
6. Prof. S.K.Bawa, Professor, CUPB (Convener)

Agenda 1/ 2015/7: Innovation and Best Practices

The innovative practices related to curriculum development

1. The heading of Agenda No. 7 should be changed to University Development instead of Curriculum Development.
2. A brainstorming session with the students should be held in order to generate innovative ideas.

The IQAC nominated the following committee for this task:

1. Prof. P. Ramarao, Dean Academic Affairs, CUPB
2. Prof. S. K. Bawa, Professor, CUPB
3. Prof. R. G. Saini, Invited Professor, CUPB
4. Prof. R. C. Sharma, Professor, CUPB
5. Dr. Sunil Mittal, Assistant Professor, CUPB
6. Dr. Sandeep Kaur, Assistant Professor, CUPB
7. Prof. A. K. Dhawan, Professor, CUPB (Convener)

Agenda 1/ 2015/8: Any Other Items with the permission of chair

(a) To develop guidelines for functioning of IQAC and conduct of its meetings

The IQAC Committee agreed to the following:

1. Next IQAC meeting will be held in October 2015.
2. A web page for IQAC has to be designed.

3. The minutes of the IQAC meeting will be sent through email to all the members and they have to send their consent within five days. If IQAC does not receive any response from any of the members, it would be taken as confirmed.
4. Since NAAC looks for more than what it mentioned in the list members felt that innovative and salient features of CUP need to be identified.
5. IQAC shall report to the Vice-Chancellor directly.

b) Data/ Document collection for IQAC

1. Activities reflecting the goals and objectives of the institution
2. New academic programmes initiated (UG and PG)
3. Innovations in curricular design and transaction
4. Inter-disciplinary programmes started
5. Examination reforms implemented
6. Candidates qualified: NET/SLET/GATE etc.
7. Initiative towards faculty development programme
8. Total number of seminars/workshops conducted
9. Research projects a) Ongoing; b) Completed
10. Patents generated, if any
11. New collaborative research programmes
12. Research grants received from various agencies
13. Details of research scholars
14. Citation index of faculty members and impact factor
15. Honors/Awards to the faculty: National and International
16. Internal resources generated
17. Details of departments getting assistance/recognition under SAP, COSIST (ASSIST)/DST, FIST, and other programmes
18. Community services
19. Teachers and officers newly recruited
20. Teaching / Non-teaching staff ratio
21. Improvements in the library services
22. New books/journals subscribed and their value
23. Courses in which student assessment of teachers is introduced and the action taken on student feedback
24. Feedback from stakeholders
25. Unit cost of education
26. Computerization of administration and the process of admissions and examination results, issue of certificates
27. Increase in the infrastructural facilities
28. Technology upgradation
29. Computer and internet access and training to teachers, non-teaching staff and students
30. Financial aid to students
31. Activities and support from the Alumni Association
32. Activities and support from the Parent-Teacher Association
33. Health services
34. Performance in sports activities
35. Incentives to outstanding sportspersons
36. Student achievements and awards
37. Activities of the Guidance and Counselling unit
38. Placement services provided to students
39. Development programmes for non-teaching staff

40. Good practices of the institution
41. Linkages developed with National/ International, academic/research bodies
42. Action Taken Report on the AQAR of the previous year
43. Any other relevant information the institution wishes to add.

The IQAC nominated the following Committee for this task:

1. Prof. A. K. Dhawan, Director, IQAC
2. Ms. Shweta Arora, Deputy Registrar.

The meeting ended with a vote of thanks to the chair proposed by Prof. P. Ramarao, Dean (A)

Director, NAAC

DFA

Central University of Punjab, Bathinda

Draft minutes of the 24th Meeting of the Building Advisory Committee (BAC) held on 16th July, 2015 at 2:00 P.M. ICSSR, Panjab University Campus, Sector: 14 Chandigarh – 160014 at 2:00 P.M.

The following members were present:

1) Prof. R. K. Kohli	-	Chairman
2) Prof. Moin Uddin	-	Member
3) Dr. R. S. Kahandpur	-	Member
4) Ar. S. L. Kaushal	-	Member
5) Prof. P. Ramarao	-	Member
6) Prof. A.K. Dhawan	-	Member
7) Prof. R. G. Saini	-	Member
8) Dr. Jagdeep Singh	-	Member
9) Er. Daljeet Singh	-	Member
10) Gurmai Singh (Executive Engineer, CPWD)	-	Member
11) Dr. Pankaj Khare	-	Member Secretary
12) Er. Puneet	-	
13) Representative of EIL (PMC)	-	

Prof. R. K. Kohli, Vice Chancellor (Chairman) welcomed the Hon'ble members of the Committee to the meeting of Building Advisory Committee (BAC). He thanked all the members for sparing their valuable time from their busy schedule to participate in the meeting and help the University in taking appropriate decisions on important matters relating to main campus development.

Item No. BAC:24:2015:1 To confirm the Minutes of 23rd meeting of BAC held on 14th May, 2015.

The committee members approved the minutes of 23rd meeting of BAC held on 14th May, 2015.

Item No. BAC:24:2015:2 Action taken on 23rd meeting of BAC.

As per the decision taken in 23rd meeting of BAC the tender was re-floated on 01-06-2015 in 2 sections on the given time frame.

Meeting noted the ATR.

Item No. BAC:24:2015:3 To evaluate the capability of contractor as identified by M/s. EIL i.e. KSM Bashir Mohammad and Sons based upon the technical bid submitted and presentation of M/s. EIL.

M/s. EIL made a short presentation regarding details of work to be executed by the contractor in Phase -IA and also highlighted the financial as well as technical capabilities of the prospective bidder presentation also included, Major (relevant) completed projects, Available resources and resources to be applied at work.

Meeting noted the highlights made in the presentation.

Item No. BAC:24:2015:4 Placing the work order to L1 firm for Civil, Structural, Electrical, HVAC, Elevators and Other Developmental Works for Establishment of Main

DFA

Campus of Central University Punjab at Bathinda Phase-IA Works(BIDDING DOC. NO. : AK/A372-000-CP-TN-7057/1003).

The Building Advisory Committee deliberated on submission of EIL and the recommendation of sub-committee of Building Advisory Committee (Annexure-I). after due deliberations, the meeting considered the lowest rate quoted by M/s. KSM Bashir Mohammad & Sons, Lucknow for Section-A + B for placing an order for development of main campus Phase-IA works as under:

Section	Total Estimated price of work	% increase (+) / decrease (-) on tendered cost as quoted	Quoted Price (in Rs.)	Service Tax (Ceiling Amount)
A	70,83,09,989/-	(-) 7.89%	652424,331	36535762/-
B	65,39,35,541/-	(-) 5.89%	615418738	34463449/-
Total of Section A & B			1,267,843,069	70999211/-

The meeting considered and approved the recommendations of the subcommittee of BAC that was based on EIL findings.

Item No. BAC:24:2015:5 To discuss the progress and monitoring work of construction of main entry road allotted to CPWD.

Executive Engineer, CPWD has informed that the work will be completed at end of September, 2015.

Meeting noted the progress.

Item No. BAC:24:2015:6 To discuss the progress and monitoring work of construction of 66kv Substation and Tower Lines allotted to PSPCL.

The status of work was explained by Assistant Engineer, CUPB. The committee considered the matter and has unanimously opinion that Executive Engineer and Dr. Jagdeep Singh jointly deliberated on the matter in discussion with PSPCL, specifically on the requirement of power at main campus.

Meeting satisfactory noted the progress.

Item No. BAC:24:2015:7 Current agenda, if any

Monthly Progress Report (No. 20) of Engineers India Ltd. for the month of May 2015 was discussed in the meeting.

Meeting considered monthly progress report of Engineering India Ltd. and approved.

Item No. BAC:24:2015:8 Any other item with the permission of the Chair.

Presentation of query raised to EIL & CUPB by ASC Builders Pvt. Ltd.

M/s. EIL explained that in the open tenders, only three firms participated and two terms were found to be technically qualified, One firm i.e. ASC Builders Pvt. Ltd., Bathinda was disqualified as it does not meet the eligibility criteria as provided in the bidding document which is elaborated below:

DFA

- a) Out of 5 jobs the agency had submitted, one job of Judicial Court Complex at Fazilka (Rs. 41.41 Crore executed upto 16.06.2015). the work is under progress and has not be considered as the works shall be completed in previous Seven (7) years ending last day of the month previous to the one in which Bids are invited (i.e. from 31.05.2008 to 31.05.2015)
- b) Job of Cattle Breeding Farm at Patiala (Rs. 30.82 Crore). The height of the building is 13.5m as against 15m tender BQC requirement and hence the job has not been considered.
- c) Job of Multi-storeyed apartments in Transport Nagar, Bathinda (Rs. 20.39 Crore) submitted by the firm does not meet the minimum value of works required to meet the BQC (Section-A: 3 jobs of Rs. 28.33 Crore each and Section-B: Rs. 26.16 Crore each).

Hence, only two jobs were found technically acceptable as against requirement of 3 jobs in that bracket of value of works.

Meeting considered the explanation and asked EIL to reply to ASC Builders appropriately.

Item No. BAC:24:2015:9 Fixing date of the next meeting of the Building Advisory Committee.

The committee authorized its Chairman to decide the date of next meeting after 10th August, 2015.

Meeting ended with thanks to chair.

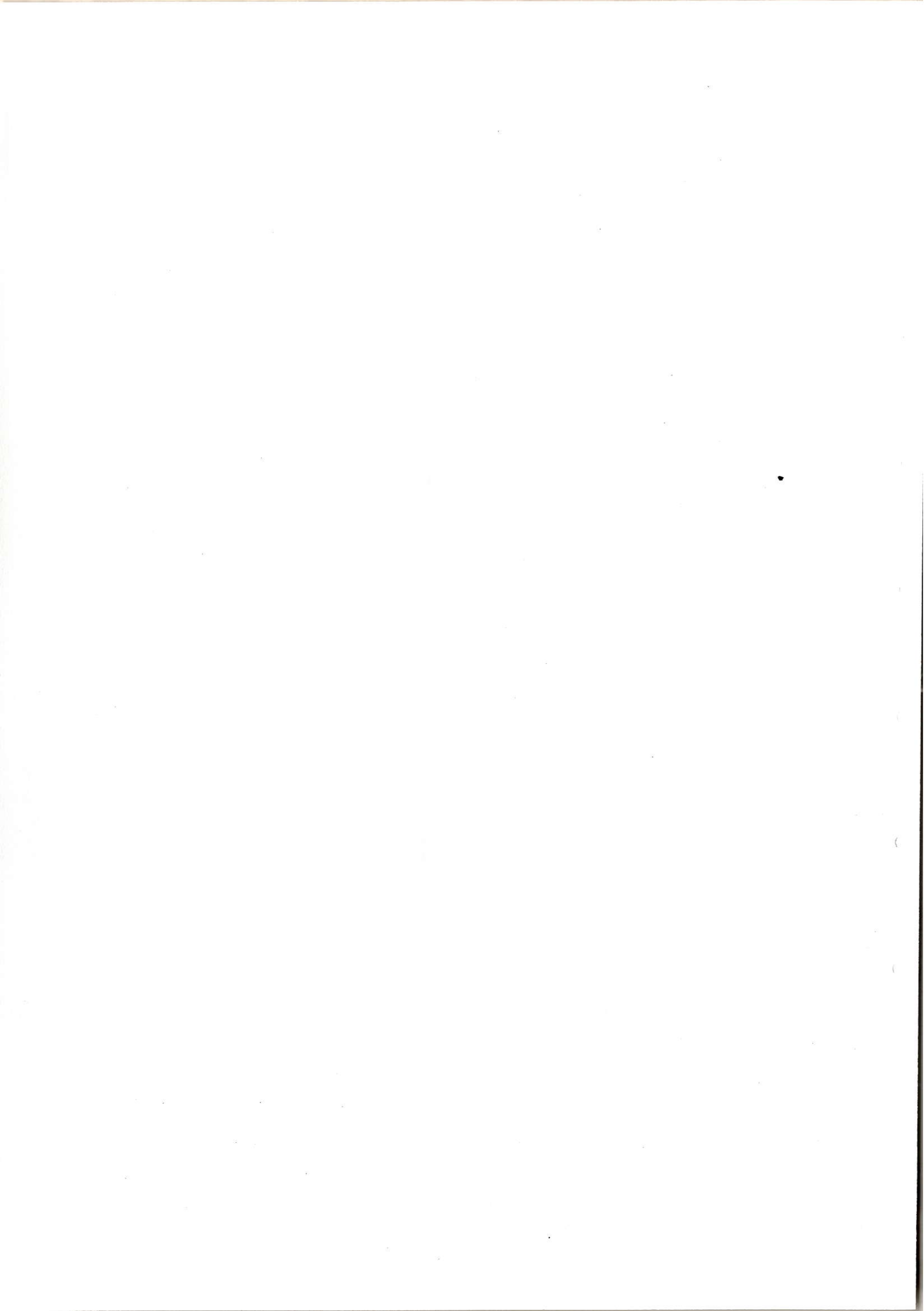
Member Secretary
(BAC)

For kind approval, pl

Delvair
17/7/15

VC, Sir

g
17/7/15



Central University of Punjab, Bathinda

Ref. No. : CUPB/CC/15/

Dated: 16-07-2015.

Minutes of the 20th Meeting of the Sub Committee of the Building Advisory Committee held on 16th July, 2015 at 1100 hrs at ICSSR, Panjab University Campus, Chandigarh

The following were present:

- (a) Dr. R. S. Khandpur - Chairman
- (b) Ar. S. L. Kaushal - Member
- (c) Er. A. N. Chowdhry - Member
- (d) Prof. P. Ramarao - Member
- (e) Prof. R. G. Saini - Member
- (f) Dr. Pankaj Khare - Member
- (g) Er. Daljeet Singh - Member Secretary
- (h) Dr. Jagdeep Singh - Special Invitee
- (i) Er. Puneet - Special Invitee

Item No. 1 To discuss regarding placing the work order to L1 firm M/s. K. S. M. Bashir Mohamad & Sons, Lucknow.

M/s EIL explained that the open tenders were called as per general terms & conditions and special Terms & Conditions of the tender approved by CUPB. In the open tenders, only three firms participated and two terms were found to be technically qualified, One firm i.e. ASC Builders Pvt. Ltd., Bathinda was disqualified as it does not meet the eligibility criteria as provided in the bidding document which is elaborated below:

1. Out of 5 jobs the agency had submitted, one job of Judicial Court Complex at Fazilka (Rs. 41.41 Crore executed upto 16.06.2015). the work is under progress and has not been considered as the works shall be completed in previous Seven (7) years ending last day of the month previous to the one in which Bids are invited (i.e. from 31.05.2008 to 31.05.2015)
2. Job of Cattle Breeding Farm at Patiala (Rs. 30.82 Crore). The height of the building is 13.5m as against 15m tender BQC requirement and hence the job has not been considered.
3. Job of Multi-storeyed apartments in Transport Nagar, Bathinda (Rs. 20.39 Crore) submitted by the firm does not meet the minimum value of works required to meet the BQC (Section-A: 3 jobs of Rs. 28.33 Crore each and Section-B: Rs. 26.16 Crore each).

Hence, only two jobs were found technically acceptable as against requirement of 3 jobs in that bracket of value of works.

The price bids were opened on 09.07.2015 and the following was the price position:

Section - A:

Sr. No.	Name of Bidder	% increase (+) / decrease (-) on tendered cost as quoted	Total Price as Quoted (in Rs.)	Total Price after Arithmetic Check
1	M/s. K. S. M. Bashir Mohamad & Sons	(-) 7.89%	65,24,24,331/-	65,24,24,331/-
2	M/s VRC Constructions (India) Pvt. Ltd.	(+) 11.77%	79,16,78,074.70/-	79,16,78,075/-

July 16/7/15

Model 16/7

Release: 16/7/15

[Signature]

[Signature]

[Signature]

[Signature]

[Signature]

[Signature] 16/7/15

Sr. No.	Name of Bidder	Total Price after Addition of service tax
1	M/s. K. S. M. Bashir Mohamad & Sons	68,89,60,093/-
2	M/s VRC Constructions (India) Pvt. Ltd.	83,60,12,047/-

As per the CVC guidelines and as incorporated in the tender document as per appendix-A to Instruction To Bidders (ITB), the process of reverse auctioning was conducted through M/s C1 India on 10.07.2015. It was informed by EIL that M/s C1 India is the standing auctioneer working with EIL and they had been appointed as per standard tendering process by M/s EIL.

The reverse auctioning was closed at 1100 hrs on 10.07.2015. Finally, the price position was as follows:

Sr. No.	Name of Bidder who submitted bids	Final Quoted Price in Reverse Auction (in Rs.)	% reduction in Price w.r.t. to evaluated price	Final Price (in Rs.)	% above (+) / Below (-) tendered cost	Status
1	M/s. K. S. M. Bashir Mohamad & Sons	68,89,60,093/-	0.00%	68,89,60,093/-	(-) 7.89%	L1
2	M/s VRC Constructions (India) Pvt. Ltd.	83,60,12,047/-	0.00%	83,60,12,047/-	(+) 11.77%	L2

It is observed that M/s. K. S. M. Bashir Mohamad & Sons, Lucknow were found to be the lowest with (-) 7.89% on the estimated (BOQ) rate. It was confirmed that all due procedural requirements have been met by M/s EIL.

Section - B

Sr. No.	Name of Bidder	% increase (+) / decrease (-) on tendered cost as quoted	Total Price as Quoted (in Rs.)	Total Price after Arithmetic Check
1	M/s. K. S. M. Bashir Mohamad & Sons	(-) 5.89%	61,54,18,738/-	61,54,18,738/-
2	M/s VRC Constructions (India) Pvt. Ltd.	(+) 11.77%	73,09,03,754.18/-	73,09,03,754/-

Sr. No.	Name of Bidder	Total Price after Addition of service tax
1	M/s. K. S. M. Bashir Mohamad & Sons	64,98,82,187/-
2	M/s VRC Constructions (India) Pvt. Ltd.	77,18,34,364/-

As per the CVC guidelines and as incorporated in the tender document as per appendix-A to Instruction To Bidders (ITB), the process of reverse auctioning was conducted through M/s C1 India on 10.07.2015. It was informed by EIL that M/s C1 India is the standing auctioneer working with EIL and they had been appointed as per standard tendering process by M/s EIL.

The reverse auctioning was closed at 1600 hrs on 10.07.2015. Finally, the price position was as follows:

M/s K. S. M. Bashir Mohamad & Sons
16/7/15

M/s VRC Constructions (India) Pvt. Ltd.
16/7/15

10/07/15

10/07/15

10/07/15

93

10/07/15

10/07/15

10/07/15

10/07/15

Sr. No.	Name of Bidder who submitted bids	Final Quoted Price in Reverse Auction (in Rs.)	% reduction in Price w.r.t. to evaluated price	Final Price (in Rs.)	% above (+) / Below (-) tendered cost	Status
1	M/s. K. S. M. Bashir Mohamad & Sons	64,98,82,187/-	0.00%	64,98,82,187/-	(-) 5.89%	L1
2	M/s VRC Constructions (India) Pvt. Ltd.	77,18,34,364/-	0.00%	77,18,34,364/-	(+) 11.77%	L2

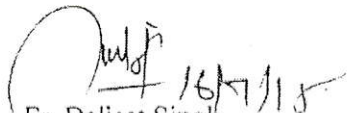
It is observed that M/s. K. S. M. Bashir Mohamad & Sons, Lucknow were found to be the lowest with (-) 5.89% on the estimated (BOQ) rate. It was confirmed that all due procedural requirements have been met by M/s EIL.

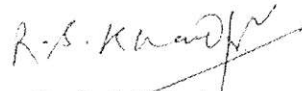
The committee is of the unanimously opinion that as recommended by EIL., the lowest rate quoted M/s. K. S. M. Bashir Mohamad & Sons, Lucknow for Section – A & B be accepted for consideration of Building Advisory Committee of Central University of Punjab, Bathinda for placing an order on this firm.

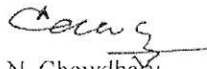
Item No. 2 **Current Agenda, if any. - NIL**

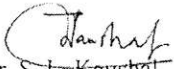
Item No. 3 **Any other item with the permission of the Chair: - NIL**


Item No. 4 **Fixing date of the next meeting of the Sub-Committee of Building Advisory Committee. – To be decided**

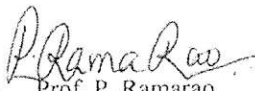

Er. Daljeet Singh
Member Secretary

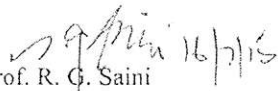

Dr. R. S. Khandpur
ex-Director General, Science City
(Chairman)

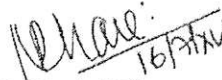

Er. A. N. Chowdhary
Retd. Chief Engineer, PWD
(Member)



Ar. S. L. Kaushal
Retd. Chief Architect Punjab
(Member)

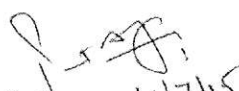

Prof. Moin Uddin
Pro-Vice Chancellor, DTU
(Special Invitee)

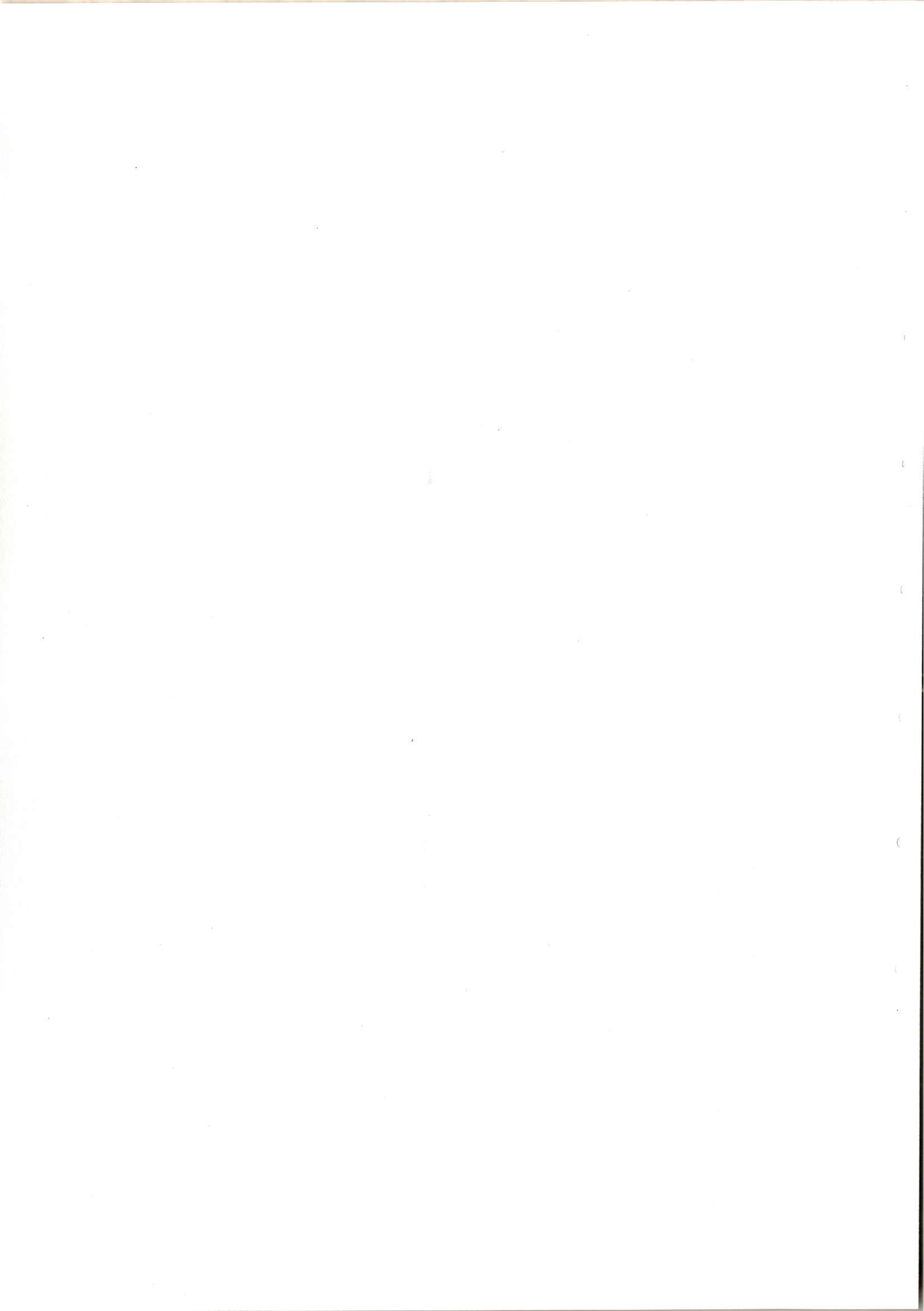

Prof. P. Ramarao
Dean Academic Affairs, CUPB
(Member)


Prof. R. G. Saini
Invited Professor, CUPB
(Member)


Dr. Pankaj Khare
Registrar, CUPB
(Member)


Dr. Jagdeep Singh
COE, CUPB
(Special Invitee)


Er. Puneet
AE, CUPB
(Special Invitee)



ਪੰਜਾਬ ਕੇਂਦਰੀ ਵਿਸ਼ਵਵਿਦ्याਲय

ਸਥਾਪਿਤ ਕੀਤਾ ਗਿਆ ਸੰ. 25(2009) ਦੇ ਠਹਿਰਾ ਰਥਾਪਿਤ)
ਸਿਟੀ ਕੈਂਪਸ, ਮਾਂਸਾ ਰੋਡ, ਬਠਿੰਡਾ-151001
E-mail: registrar@cup.ac.in
Website: www.cup.ac.in
Phone: +91 164 2864106



Annexure - 16.10
Central University of Punjab

(Established vide an Act no. 25(2009) of Parliament)
City Campus, Mansa Road, Bathinda-151001
Email: registrar@cup.ac.in
Website: www.cup.ac.in
Phone: +91-164-2864106

Ref No CUPB/CC/2015/PF/SCN/1565

Dated: 22.05.2015

Ms Poonam Rani
Upper division Clerk
Central University of Punjab
Bathinda - 151001

Annexure 16.10

Under Protest
Received Poonam
22/5/15

Sub: Show Cause Notice

This is to inform you that your appointment as UDC was put up to the Executive Council for confirmation. However, the Executive Council found that as per material on records your appointment is not as per the minimum eligibility conditions notified vide No: NT-11(2013) and hence not approved your appointment as UDC against the said advertisement. As directed by the Executive Council you are hereby served a Show Cause Notice as follows:

- Whereas you joined Central University of Punjab as Computer Operator against the post of LDC w.e.f. 01.07.2009 on contractual basis.
- Whereas you have submitted experience certificate Dated 17.07.2009 of Arya Model High School certifying that you have worked in that school as Computer Teacher cum Office Assistant since 01.04.2005 to till date continually i.e. till 17.07.2009 (date of issuance of certificate). However, you joined the University as Computer Operator against the post of LDC w.e.f. 01.07.2009 on contractual basis.
- Whereas the university advertised the post of LDC along with other positions vide advertisement no. NT-05 (2013), the last date for receiving the applications for the same was upto 17.06.2013.
- Whereas you have applied for the above post and upon selection you joined the university as LDC (in pay scale of 5200-20200+GP1900) on 24.09.2013.
- Whereas during the period the university advertised the positions of UDC (in the pay scale 5200-20200+GP 2400) along with the other positions vide advertisement no. NT-05 (2013), the last date for receiving the applications for the same was upto 17.06.2013.
- Whereas the minimum qualification for the above post along with other qualifications was kept as Graduation with 50% marks.
- Whereas you applied for the above positions along with the other applicants.
- Whereas while the shortlisting the applications your application was rejected on the grounds "post qualification experience less than three years".
- Whereas the post of UDC (in the pay scale 5200-20200+GP 2400) was again advertised by the university vide advertisement No. NT-11 (2013), the last date

- 95 -

ਪੰਜਾਬ ਕੇਂਦਰੀ ਵਿਸ਼ਵਵਿਦ्याਲय

(संसद के अधिनियम सं. 25(2009) के द्वारा स्थापित)

नगर परिसर, मानसा मार्ग, बठिंडा-151001

ईमेल: registrar@cup.ac.in

वेबसाइट: www.cup.ac.in

दूरभाष: +91 164 2864106



Central University of Punjab

(Established vide an Act no. 25(2009) of 2009)

City Campus, Mansa Road, Bathinda

Email: registrar@cup.ac.in

Website: www.cup.ac.in

Phone: +91-164 2864106

- Whereas the minimum qualification for the above post along with other qualifications was kept as Graduate in any discipline with good academic record from a recognized university.
- Whereas you again applied for the post along with the other applicants and upon your selection for the same, you joined the university as UDC (in the pay scale 5200-20200+GP 2400) on 01.01.2014.

In view of the above, you are hereby given an opportunity by the university to defend your eligibility for the post of UDC. You are hereby directed to explain as to why an action may not be taken against you on the following grounds:-

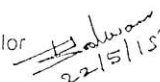
1. You lost the record relating to Ms. Shweta Arora regarding her previous experience and other qualifications.
2. Submission for forged Experience Certificate of Arya Model High School by you for seeking contractual employment as Computer Operator against the post of LDC at Central University of Punjab Bathinda
3. You become instrumental in influencing the change in the qualification for the post of UDC in the advertisement no. NT-11(2013) as compared to previous advertisement i.e NI-05(2013) wherein your application was not shortlisted.
4. You manipulated the conditions of shortlisting of applications for the post of UDC and ultimately clearing to your appointment as UDC against the advt No. NT-11(2013).
5. You failed to maintain the integrity being an employee of the university.
6. You violated the Central Government Employee Conduct Rules.

You are hereby given 21 days from the date of issuance of this Show Cause Notice to defend yourself. In case no reply is received by the University within 21 days it shall be presumed that you have nothing to say in this regard and the University can take action against you as it may deem fit.


Registrar (C)

Copy to:

1. Vice Chancellors Secretariat for the information of the Vice Chancellor
2. Personal File
3. Concerned file


22/5/15

Date 11th June, 2015.

To

The Registrar
Central University of Punjab
City Campus, Mansa Road
Bathinda - 151 001

Subject: Show Cause Notice - Submission of reply thereto.

Respected Sir,

With reference to my reply submitted in the stipulated period against allegation no.1 at page no.1 in line no. 5 the word 'had' falling in between 'I' and 'not' be substituted with the word 'was'.

Other things remain the same.

Thanking You

Yours sincerely,

(Ms. Poonam Rani)

Upper Division Clerk

Central University of Punjab

Bathinda

Handwritten notes:
D.A.A. 15/6/15
11-6-15

Handwritten signature:
D.A.A.
15/6/15
Registrar

Handwritten date:
15/6/15

Handwritten note:
To Registrar

Handwritten note:
He look into the file
Poonam
15/6/15

Handwritten note:
Please put up as per directions of EC, please.

Handwritten initials:
ND(A)

Handwritten signature:
Shalini
21/6/15

So the question of destruction and misplacement of the previous experience and other qualification of Ms. Shweta Arora by the undersigned does not arise. Moreover, the show cause notice is ambiguous because the necessary particulars, dates, years etc. to which the alleged loss of documents relate is not mentioned therein.

Allegation No. 2

That the allegation leveled against the undersigned is absolutely wrong, hence strongly denied. In repudiation, it is however, submitted that due to inadvertence or typographical mistake the words "till date continually" after the words April 1, 2005 in line number 3 of the certificate has been mentioned. The Principal, Arya Model High School, Bathinda (now Arya Model Sr. Sec. School, Bathinda) has issued a correct certificate strictly in accordance with the record. The Certificate regarding the work and conduct of the undersigned has already been submitted. A copy of the fresh certificate is enclosed. It is further submitted that the previous certificate does not have any impact on the merit in selection.

Allegation No.3

It is all to gather wrong that the undersigned had become instrumental in influencing the change in the qualification for the post of UDC in the Advertisement No. NT-11 (2013) as compared to Advertisement i.e. NT-05 (2013) wherein the application of the undersigned was not short listed. The undersigned was

working as Computer Operator against the post of LDC on contract basis and joined LDC on regular basis on 24th Sept. 2013 as such she was not in a position to become instrumental in influencing the change in the qualification for the post of UDC. The undersigned had applied having the qualification as required in the advertisement.

Allegation No. 4

In reply to allegation no. 4 it is stated that no prudent person can stomach that a person working on the contractual basis as Computer Operator against the post of LDC or LDC can manipulate the conditions of short listing of applications for the post of UDC. So this allegation is absolutely wrong, hence specifically denied.

Allegation No. 5

That the allegations leveled against the undersigned in Item No. 5 are wrong, hence strongly denied. It is however, in repudiation stated that during the span of long services of the undersigned her work and conduct has been found to be satisfactory and no adverse remarks have been passed and delivered to the undersigned.

Allegation No. 6

That the undersigned has never violated the Central Government Employees Conduct Rules.

3. That it is well settled principle of natural justice and a golden rule of modern service jurisprudence that every delinquent.

facing contemplating departmental proceedings, has a right not only of defence but the departmental authority is bound to issue a show cause notice in detail to enable the delinquent to understand the allegations properly and he/she must submit his/her reply to the show cause notice properly comprehensively and in detail. At the first blush the show cause notice served upon the delinquent appears to be well woven but if the veil is lifted it would be manifestly clear that no reason or hints under which the allegations have been leveled against the undersigned have ~~not~~ been given. Moreover, it (show cause notice) is infact a charge sheet without supporting the documents/letters in support of the allegations with which the undersigned has been tethered, with the result the undersigned has been made handicapped to submit her reply to the allegations/charges. Moreover, it is evident that a preliminary enquiry has been held in the absence of the undersigned and no such copy of the preliminary report accompanied with the relevant documents on which the undersigned has been found to be guilty of misconduct and loss of documents given to the undersigned. As submitted above, the undersigned had been working against a lower post and not working or performing the duties of a custodian of record. Thus she can not be held responsible for having lost the previous experience and other qualification of Ms. Shweta Arora. Thus the allegations are motivated. As stated above the supply of a copy of preliminary enquiry report accompanied by the relevant record has not been supplied which was mandatory to be supplied to the undersigned to enable her to understand the false allegations leveled against her and submit convincing reply to the show cause notice. In this connection a reference is invited to the observations made by the Hon'ble judges in the case, a nut shell thereof is reproduced below:-

(i) Hans Raj Gupta
Versus State of Punjab 1992
(1) RSJ 462.

“Preliminary Enquiry Report (Audit Report) which was the basis of the guilt – against the petitioner had to be supplied to the petitioner so that he could properly defend himself. It has certainly prejudiced his defence and the whole enquiry proceedings are liable to be set aside on this point alone”.

4. That as stated above that the allegations made against the undersigned are motivated with interior motive. It appears that some person has been nursing ill-will, malice and grudge against the undersigned and wants to get rid of the undersigned so as to make a room to adjust a person of his choice in place of the undersigned. It thus lends credence that a show cause notice which is not proper and ambiguous issued to deprive to her from submitting the comprehensive reply to the show cause notice. There is a catena of judicial verdicts to the effect that a show cause notice/charge sheet which materially suffers from the blemish of ignoring or overlooking willfully or otherwise vital provision of rules or observations made by the judicial courts bearing on the matter is bad. Likewise any action which digs up absolute, circumstance and obsessively reaches a decision based on the defective show cause notice can not be sustained in the eyes of law. As stated above that the show cause notice is not

proper which has been given to the undersigned with interior motive.

5. That is well settled and right to life conferred under Article 21 includes the right to livelihood, the depriving of an employee from the livelihood. The employee can not be deprived from the fundamental right of livelihood. In this connection a reference is invited to the verdict rendered by the Hon'ble Judge in the case, a nut shell thereof is reproduced below:-

Constitution of India, Article 14,
21 and 226 – Natural Justice –
Right to life conferred u/Article 21
includes the right to livelihood.
Depriving of from source of
livelihood in utter violation of
principles of natural justice and
fair play violate the right to life.

As stated above that the show cause notice as served upon the undersigned is defective and simply has given the same to the undersigned to adjust to some other person and if so, the entire family of the undersigned may lead to starvation. A reliance in this regard is placed on the following judgment rendered by the Hon'ble Judges, a nut shell is reproduced below:-

State of Kerala Versus Mohanan
2000 (1) SCT 963. Administrative
Order – Natural Justice – Civil
consequences – old distinction
between a judicial act and
administrative act has withered

away – Even an administrative order which involves civil consequences must be consistent with rules of natural justice.

In view of the foregoing submissions and corollary of the judicial Authorities, quoted above, it is prayed that the Show Cause Notice, in question, may kindly be withdrawn.

Trusting, justice will be administered to the undersigned at your Honour's benevolent hands, for which the undersigned, as duty bound, shall pray to Almighty for your prosperity and longevity.

With profound respects.

Dated: 9th June, 2015.

Submitted by

(Ms. Poonam Rani)
(Ms. Poonam Rani)

Upper Division Clerk

Central University of Punjab

Bathinda

and A copy of certificate.



आर्य माडल सी. से. स्कूल

(सम्बन्धित : आर्य विद्या परिषद, जालंधर)
आर्य समाज चौक, बठिण्डा।

पतांक.....

दिनांक.....

To Whom It May Concern:

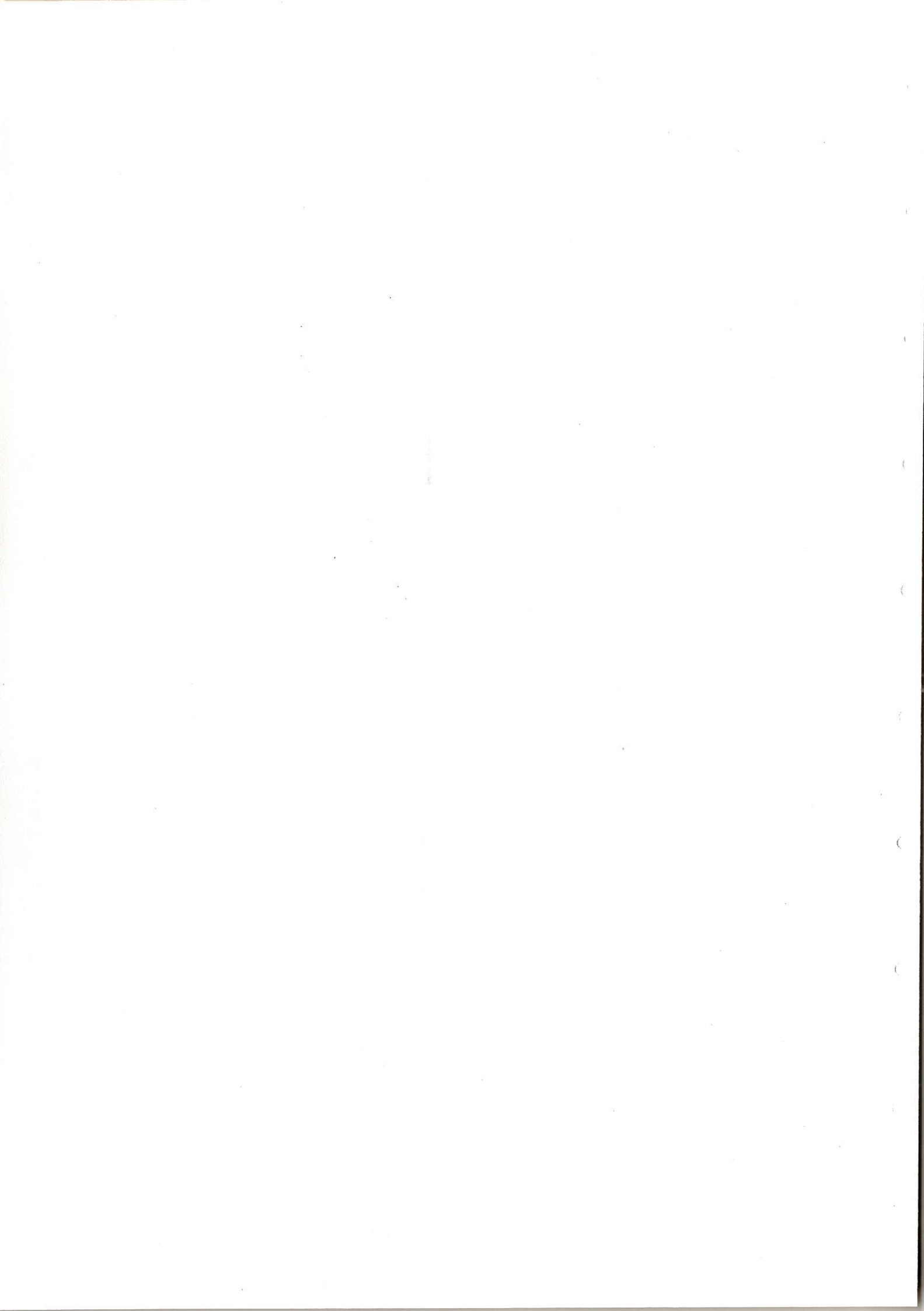
Certified that Mrs. Poonam Rani W/o Sh. Ramesh Garg had been worked in this school as Computer Teacher cum office Assistance since April 1, 2005 to June 30, 2009.

Her work during her job was quite satisfactory and she was very punctual and hard working.

This is to certified that date mentioned in the earlier certificate i.e. 17.7.2009 was the issuing date and should not taken as experience date.

Mrs. Poonam Rani was relieved from this school on July 1, 2009 forenoon.

.....
.....
.....



COUNTING OF PAST SERVICE

Annexure-16.11

The claims of the following faculty members were checked as per details given below:

S.N.	Name	Designation	Period to be counted	Remarks if any
1.	Dr. Felix Bast	Assistant Professor	01.10.2010 to 10.10.2011	In Order
2.	Dr. Sanjeev Kumar	Assistant Professor	01.10.2010 to 10.10.2011	In Order
3.	Dr. Sunil Mittal	Assistant Professor	01.10.2010 to 27.10.2011	In Order
4.	Dr. Sandeep Kaur	Assistant Professor	01.10.2010 to 14.12.2011	In Order
5.	Dr. Anil Kumar Mantha	Assistant Professor	30.01.2006 to 25.05.2012	In Order (Recommended by committee)
6.	Dr. Alpna Saini	Assistant Professor	19.07.2004 to 14.10.2011	In Order
7.	Er. S.S Khurana	Assistant Professor	25.08.2011 to 15.04.2013	In Order
8.	Dr. Mahesh Kulharia	Assistant Professor	28.09.2010 to 04.07.2013	In Order
9.	Dr. Satvinderpal Kaur	Assistant Professor	07.11.2000 to 16.12.2013	In Order
10.	Dr. Shamshir Singh	Assistant Professor	01.10.2010 to 07.11.2013	Need to be checked (there is break in service)
11.	Dr. Shreeshpal Singh	Assistant Professor	28.08.2011 to 17.12.2013	Claim for the periods: a) 25.11.2006 to 09.04.2011 b) 09.04.2011 to 24.08.2011 not considered by the Committee- Need to be checked 25-08.2011 to 17.12.2013 -In order
12.	Dr. Raj Kumar	Assistant Professor	16.01.2009 to 11.04.2012	Need to be checked previous service at CUP and other organisation (in scale, but not considered by the committee)
13.	Dr. Vinod Kumar	Assistant Professor	Jan 2010 to 05.06.2012	Need to be checked (PDF claim is possible but need to submit documents for the same as the case is similar to S.N. 5)
14.	Dr. Vikas Jaitak	Assistant Professor	04.07.2011 to 10.12.2013	In order
15.	Dr. Pankaj Bhardwaj	Assistant Professor	07.05.2011 to 10.12.2013	In order
16.	Dr. Zameerpal Kaur	Assistant Professor	21.10.2009 to 21.09.2011	In order
17.	Dr. Rajinder Kumar	Assistant Professor	14.03.2011 to 28.09.2011	In order
18.	Dr. Amandeep Singh	Assistant Professor	18.09.2010 to 25.03.2013	In order
19.	Dr. Dhanya M S	Assistant Professor	21.03.2011 to 27.10.2011	In order
20.	Dr. Vigneshwari K. N	Assistant Professor	20.04.2011 to 31.10.2011	In order
21.	Dr. Puneeta Pandey	Assistant Professor	16.03.2011 to 25.03.2013	In order
22.	Dr. Kiran Kumari Singh	Assistant Professor	02.04.2012 to 25.03.2013	In order
23.	Dr. Bawa Singh	Assistant Professor	19.09.2012 to 31.03.2013	In order
24.	Dr. Nishtha Kaushiki	Assistant Professor	06.09.2012 to 23.12.2013	In order
25.	Dr. Deepak Kumar	Assistant Professor	22.03.2011 to 25.04.2013	In order
26.	Dr. Puneet Pathak	Assistant Professor	03.04.2012 to 25.04.2013	In order
27.	Dr. Naresh Kumar Singla	Assistant Professor	03.09.2012 to 09.09.2013	In order
28.	Er. Meenakshi Mittal	Assistant Professor	30.08.2010 to 27.09.2011	In order
29.	Dr. Anjana Munshi	Associate Professor	Aug. 2007 to 31.12.2013	In order
30.	Dr. Preeti Khetarpal	Assistant Professor	31.08.2012 to 17.06.2013	In order
31.	Dr. Sandeep Singh	Assistant Professor	28.08.2012 to 17.06.2013	In order
32.	Dr. Monisha Dhiman	Assistant Professor	31.05.2012 to 09.12.2013	In order
33.	Dr. Harish Chander	Assistant Professor	05.06.2010 to Nov 2013	Need to be checked (case is similar to S.N. 5)
34.	Dr. Koushik Giri	Assistant Professor	12.03.2007 to 15.12.2012	In order
35.	Dr. Achchhe Lal Sharma	Assistant Professor	28.07.2011 to 30.04.2013	In Order
36.	Dr. Kamlesh Yadav	Assistant Professor	10.10.2012 to 30.04.2013	In Order
37.	Dr. Jai Prakash	Assistant Professor	15.05.2012 to 20.05.2013	Need to be checked (Committee has not considered his service as Inspire Faculty)
38.	Dr. Ramanpreet Kaur	Assistant Professor	21.02.2012 to 19.09.2013	In Order
39.	Dr. Jubilee	Assistant Professor	01.01.2014 to 24.12.2014	In Order

Central University of Punjab

ORDINANCE - X

SCHOOL BOARDS [Statute 15(2-4)]

Every School shall have a School Board.

1. Constitution

Each School Board consists of the following:

- | | | |
|-----|--|--------------------------|
| 1.1 | Dean of the School | Chairperson (Ex-officio) |
| 1.2 | Coordinators of the Centres in the School | Members (Ex-officio) |
| 1.3 | Six Professors in the School to be nominated by the Vice Chancellor, not more than one from each Centre of Studies | Members |
| 1.4 | One Associate Professor and one Assistant Professor from each of the Centres by rotation on the basis of seniority | Member |
| 1.5 | One representative each of the Boards of other Schools which have inter-disciplinary work with the School, to be nominated by the Vice Chancellor on the recommendations of the Chairperson, School Board concerned | Member |
| 1.6 | Not more than five persons to be nominated by the Academic Council, who have specialised knowledge of and expertise in the subjects around which the Centres in the School are organised and who are not employees of the University | Member |

Provided that as per Statute 15(2) of the Central University Act 2009, the first School Board shall be nominated by the Executive Council for a period of three years.

2. Term of Office

The term of office of members, other than that of the Dean, Coordinators of Centres and Professors shall be two years.

3. Functions

The functions of the Board shall be to:

- 3.1 Recommend to the Academic Council the various courses of study, other than research degrees offered by the Centres in the School and courses of study for research degrees to the Board of Research;
- 3.2 Appoint committees to coordinate the teaching and research work in subjects or areas which are of interest to more than one Centre or which do not fall within the sphere of any Centre in the School and to supervise the work of such committees;

Central University of Punjab

3.3 Recommend examiners for appointment for the courses other than research degrees, offered by the Centres on the recommendation of the Boards of Studies of the concerned Centres;

3.4 Perform all other functions which may be prescribed by the Act, the Statutes and the Ordinances, and to consider all such matters as may be referred to it by the Executive Council, the Academic Council or the Vice Chancellor ; and

4. Meetings

4.1 Meetings of a Board shall either be ordinary or special.

4.2 Ordinary meetings shall be held twice in an academic year, at least once in each Semester.

4.3 Special meetings may be called by the Dean of the School at his/her own initiative or shall be called at the suggestion of the Vice Chancellor. No item other than those notified earlier shall be discussed at the special meeting.

5. Quorum

The quorum for the meeting of the Board shall be one- third of its total members.

6. Notice

Notice for any meeting of the Board shall be issued at least one week before the date fixed for the meetings.

7. Rules of Business

Rules of conduct of the meetings shall be as prescribed by the Regulations in this regard.

1. SCHOOL OF BASIC AND APPLIED SCIENCES

1.1 Dean of the School

Chairperson Prof. P. Ramarao
(Ex-officio)

1.2 Coordinators of the Centres in the School

Members
(Ex-officio)

1. Dr. Rakesh Kumar, OIC, Centre for Chemical Sciences
2. Dr. Raj Kumar, OIC, Centre for Pharmaceutical Sciences and Natural Products
3. Dr. Anil Kumar Mantha, OIC, Centre for Animal Sciences
4. Prof. A.K. Dhawan, CoC, Centre for Plant Sciences
5. Prof. R. G. Saini, CoC, Centre for Biochemistry and Microbial Sciences
6. Prof. Desh Deepak Singh, CoC, Centre for Computational Science
7. Dr. Achchhe Lal Sharma, OIC, Centre for Physical Sciences
8. Dr. Sachin Kumar, OIC, Centre for Mathematics and Statistics

1.3 Six Professors in the School to be nominated by the Vice Chancellor, not more than one from each Centre of Studies

VACANT

1.4 One Associate Professor and one Assistant Professor from **each of the Centres** by rotation on the basis of seniority

1. Centre for Chemical Sciences
 - i) Dr. Krishan Kanta Haldar
2. Centre for Pharmaceutical Sciences and Natural Products
 - i) Dr. Vinod Kumar
3. Centre for Animal Sciences
 - i) Dr. Jyoti Parkash
4. Centre for Plant Sciences
 - i) Dr. Felix Bast
5. Centre for Biochemistry and Microbial Sciences
 - i) Dr. Aklank Jain
6. Centre for Computational Science
 - i) Dr. Kousik Giri
7. Centre for Physical Sciences
 - i) Dr. Jai Prakash
8. Centre for for Mathematical Sciences
 - i) Dr. Anoop Kumar

(VC Nominees)

1.5 One representative each of the Boards of other Schools which have inter-disciplinary work with the School, to be nominated by the Vice Chancellor on the recommendations of the

The Vice Chancellor may be authorized to nominate

Chairperson, School Board concerned

- 1.6 Not more than five persons to be nominated by the Academic Council, who have specialized knowledge of and expertise in the subjects around which the Centres in the School are organized and who are not employees of the University

The Executive Council may nominate or authorize the VC to nominate

2. SCHOOL OF ENVIRONMENT AND EARTH SCIENCES

- | | | | |
|-----|--|-------------|--|
| 1.1 | Dean of the School | Chairperson | Prof. R.C. Sharma
(Ex-officio) |
| 1.2 | Coordinators of the Centres in the School | Members | Prof. R.C. Sharma
(Ex-officio) |
| 1.3 | Six Professors in the School to be nominated by the Vice Chancellor, not more than one from each Centre of Studies | | VACANT |
| 1.4 | One Associate Professor and one Assistant Professor from each of the Centres by rotation on the basis of seniority

(VC Nominees) | | 1. Assoc. Prof.: VACANT

2. Centre for Environmental Science and Technology
i) Dr. Sunil Mittal |
| 1.5 | One representative each of the Boards of other Schools which have inter-disciplinary work with the School, to be nominated by the Vice Chancellor on the recommendations of the Chairperson, School Board concerned | | The Vice Chancellor may be authorized to nominate |
| 1.6 | Not more than five persons to be nominated by the Academic Council, who have specialized knowledge of and expertise in the subjects around which the Centres in the School are organized and who are not employees of the University | | The Executive Council may nominate or authorize the VC to nominate |

3. SCHOOL OF EMERGING LIFE SCIENCES

- | | | | |
|-----|--|-----------------------------|--|
| 1.1 | Dean of the School | Chairperson
(Ex-officio) | Prof. A.K. Dhawan |
| 1.2 | Coordinators of the Centres in the School | Members
(Ex-officio) | 1. Dr. Sandeep Singh, OIC,
Centre for Genetic
Diseases and Molecular
Medicine |
| 1.3 | Six Professors in the School to be nominated by the Vice Chancellor, not more than one from each Centre of Studies | | VACANT |
| 1.4 | One Associate Professor and one Assistant Professor from each of the Centres by rotation on the basis of seniority

(VC Nominees) | | 1. Assoc. Prof.: VACANT

2. Centre for Genetic
Disease and Molecular
Medicine
i) Dr. Monisha Dhiman |
| 1.5 | One representative each of the Boards of other Schools which have inter-disciplinary work with the School, to be nominated by the Vice Chancellor on the recommendations of the Chairperson, School Board concerned | | The Vice Chancellor
may be authorized to
nominate |
| 1.6 | Not more than five persons to be nominated by the Academic Council, who have specialized knowledge of and expertise in the subjects around which the Centres in the School are organized and who are not employees of the University | | The Executive Council
may nominate or
authorize the VC to
nominate |

4. SCHOOL OF HEALTH SCIENCE

- | | | | |
|-----|--|-----------------------------|---|
| 1.1 | Dean of the School | Chairperson
(Ex-officio) | Prof. A.K. Dhawan |
| 1.2 | Coordinators of the Centres in the School | Members
(Ex-officio) | Dr. Anjana Munshi,
CoC, Centre for Human
Genetics |
| 1.3 | Six Professors in the School to be nominated by the Vice Chancellor, not more than one from each Centre of Studies | | VACANT |
| 1.4 | One Associate Professor and one Assistant Professor from each of the Centres by rotation on the basis of seniority

(VC Nominees) | | 1. Assoc. Prof.: VACANT

2. Centre for Human
Genetics
i) Dr. Preeti Khetarpal |
| 1.5 | One representative each of the Boards of other Schools which have inter-disciplinary work with the School, to be nominated by the Vice Chancellor on the recommendations of the Chairperson, School Board concerned | | The Vice Chancellor
may be authorized to
nominate |
| 1.6 | Not more than five persons to be nominated by the Academic Council, who have specialized knowledge of and expertise in the subjects around which the Centres in the School are organized and who are not employees of the University | | The Executive Council
may nominate or
authorize the VC to
nominate |

5. SCHOOL OF LANGUAGES, LITERATURE AND CULTURE

- | | | | |
|-----|--|-----------------------------|--|
| 1.1 | Dean of the School | Chairperson
(Ex-officio) | Prof. S.K. Bawa |
| 1.2 | Coordinators of the Centres in the School | Members
(Ex-officio) | 1. Dr. Zameerpal Kaur,
OIC, Centre for
Comparative Literature
2. Dr. Alpna Saini, CoC,
Centre for Classical and
Modern Languages |
| 1.3 | Six Professors in the School to be nominated by the Vice Chancellor, not more than one from each Centre of Studies | | VACANT |
| 1.4 | One Associate Professor and one Assistant Professor from each of the Centres by rotation on the basis of seniority

(VC Nominees) | | 1. Assoc. Prof.: VACANT

2. Centre for Comparative Literature
i) Dr. Rajinder Kumar
3. Centre for Classical and Modern Languages (Punjabi Language, Literature & Culture; English)
i) Dr. Ramanpreet Kaur |
| 1.5 | One representative each of the Boards of other Schools which have inter-disciplinary work with the School, to be nominated by the Vice Chancellor on the recommendations of the Chairperson, School Board concerned | | The Vice Chancellor may be authorized to nominate |
| 1.6 | Not more than five persons to be nominated by the Academic Council, who have specialized knowledge of and expertise in the subjects around which the Centres in the School are organized and who are not employees of the University | | The Executive Council may nominate or authorize the VC to nominate |

6. SCHOOL OF ENGINEERING AND TECHNOLOGY

- | | | | |
|-----|--|-----------------------------|--|
| 1.1 | Dean of the School | Chairperson
(Ex-officio) | Prof. A.K. Jain |
| 1.2 | Coordinators of the Centres in the School | Members
(Ex-officio) | Prof. A.K. Jain |
| 1.3 | Six Professors in the School to be nominated by the Vice Chancellor, not more than one from each Centre of Studies | | VACANT |
| 1.4 | One Associate Professor and one Assistant Professor from each of the Centres by rotation on the basis of seniority

(VC Nominees) | | 1. Assoc. Prof.: VACANT

2. Centre for Computer Science & Technology
i) Er. Meenakshi |
| 1.5 | One representative each of the Boards of other Schools which have inter-disciplinary work with the School, to be nominated by the Vice Chancellor on the recommendations of the Chairperson, School Board concerned | | The Vice Chancellor may be authorized to nominate |
| 1.6 | Not more than five persons to be nominated by the Academic Council, who have specialized knowledge of and expertise in the subjects around which the Centres in the School are organized and who are not employees of the University | | The Executive Council may nominate or authorize the VC to nominate |

7. SCHOOL OF GLOBAL RELATIONS

- | | | | |
|-----|--|-----------------------------|--|
| 1.1 | Dean of the School | Chairperson
(Ex-officio) | Prof. S.K. Bawa |
| 1.2 | Coordinators of the Centres in the School | Members
(Ex-officio) | Dr. Bawa Singh, OIC,
Centre for South and
Central Asian Studies
(including Historical
Studies) |
| 1.3 | Six Professors in the School to be nominated by the Vice Chancellor, not more than one from each Centre of Studies | | VACANT |
| 1.4 | One Associate Professor and one Assistant Professor from each of the Centres by rotation on the basis of seniority | | 1. Assoc. Prof.: VACANT
2. Centre for South and
Central Asian Studies
i) Dr. Nishtha Kaushiki |
| 1.5 | One representative each of the Boards of other Schools which have inter-disciplinary work with the School, to be nominated by the Vice Chancellor on the recommendations of the Chairperson, School Board concerned | | The Vice Chancellor
may be authorized to
nominate |
| 1.6 | Not more than five persons to be nominated by the Academic Council, who have specialized knowledge of and expertise in the subjects around which the Centres In the School are organized and who are not employees of the University | | The Executive Council
may nominate or
authorize the VC to
nominate |

8. SCHOOL OF SOCIAL SCIENCES

- | | | | |
|-----|--|-----------------------------|--|
| 1.1 | Dean of the School | Chairperson
(Ex-officio) | Prof. P. Ramarao |
| 1.2 | Coordinators of the Centres in the School | Members
(Ex-officio) | 1. Dr. Kiran K. Singh,
OIC, Centre for
Geography &
Geology
2. Dr. Pabitra Kumar
Mishra, CoC, Centre
for Economic Studies
VACANT |
| 1.3 | Six Professors in the School to be nominated by the Vice Chancellor, not more than one from each Centre of Studies | | |
| 1.4 | One Associate Professor and one Assistant Professor from each of the Centres by rotation on the basis of seniority

(VC Nominees) | | 1. Assoc. Prof.: VACANT

2. Centre for Economic
Studies
i) Dr. Sandeep Kaur |
| 1.5 | One representative each of the Boards of other Schools which have inter-disciplinary work with the School, to be nominated by the Vice Chancellor on the recommendations of the Chairperson, School Board concerned | | The Vice Chancellor
may be authorized to
nominate |
| 1.6 | Not more than five persons to be nominated by the Academic Council, who have specialized knowledge of and expertise in the subjects around which the Centres in the School are organized and who are not employees of the University | | The Executive Council
may nominate or
authorize the VC to
nominate |

9. SCHOOL OF LEGAL STUDIES AND GOVERNANCE

- | | | | |
|-----|--|-----------------------------|--|
| 1.1 | Dean of the School | Chairperson
(Ex-officio) | Prof. P. Ramarao |
| 1.2 | Coordinators of the Centres in the School | Members
(Ex-officio) | Dr. Tarun Arora, CoC,
Centre for Law |
| 1.3 | Six Professors in the School to be nominated by the Vice Chancellor, not more than one from each Centre of Studies | | VACANT |
| 1.4 | One Associate Professor and one Assistant Professor from each of the Centres by rotation on the basis of seniority

(VC Nominees) | | 1. Centre for Law
i) Dr. Puneet Pathak |
| 1.5 | One representative each of the Boards of other Schools which have inter-disciplinary work with the School, to be nominated by the Vice Chancellor on the recommendations of the Chairperson, School Board concerned | | The Vice Chancellor may be authorized to nominate |
| 1.6 | Not more than five persons to be nominated by the Academic Council, who have specialized knowledge of and expertise in the subjects around which the Centres in the School are organized and who are not employees of the University | | The Executive Council may nominate or authorize the VC to nominate |

10. SCHOOL OF EDUCATION

- | | | | |
|-----|--|-----------------------------|---|
| 1.1 | Dean of the School | Chairperson
(Ex-officio) | Prof. S.K. Bawa |
| 1.2 | Coordinators of the Centres in the School | Members
(Ex-officio) | Prof. S.K. Bawa |
| 1.3 | Six Professors in the School to be nominated by the Vice Chancellor, not more than one from each Centre of Studies | | VACANT |
| 1.4 | One Associate Professor and one Assistant Professor from each of the Centres by rotation on the basis of seniority

(VC Nominees) | | 1. Assoc. Prof.: Dr. Satvinder Kaur

2. Centre for Education
i) Dr. Shamshir Singh Dhillon |
| 1.5 | One representative each of the Boards of other Schools which have inter-disciplinary work with the School, to be nominated by the Vice Chancellor on the recommendations of the Chairperson, School Board concerned | | The Vice Chancellor may be authorized to nominate |
| 1.6 | Not more than five persons to be nominated by the Academic Council, who have specialized knowledge of and expertise in the subjects around which the Centres in the School are organized and who are not employees of the University | | The Executive Council may nominate or authorize the VC to nominate |