Central University of Punjab Bathinda



Minutes

Of

Fifteenth Meeting of the

Academic Council



MINUTES OF THE FIFTEENTH MEETING OF THE ACADEMIC COUNCIL held at City Campus, Central University of Punjab on 15th July 2017

CONFIDENTIAL

The following members were present:

1.	Prof. R. K. Kohli		- Chairman
2.	Prof. K.N. Pathak		- Member
3.	Prof. S. P. Singh		- Member
4.	Prof. S.S. Chahal	. 1	- Member
5.	Prof. Veer Singh	1	- Member
6.	Prof. M.P.S. Isher	i	- Member
7.	Prof. P.S. Jaswal		- Member
8.	Prof. Gurmail Singh		- Member
9.	Prof. Narpinder Singh		- Member (via Sky)
10.	Prof. P. Ramarao		- Member
11.	Prof. V.K. Garg		- Member
12.	Prof. S.S. Marwaha	1	- Member
13.	Dr. Tarun Arora		- Member
14.	Dr. P.K. Mishra	1 1	- Member
15.	Sh. K.P. Singh	4	- Special Invitee
16.	Prof. Jagdeep Singh	1.50	- Secretary

Prof. Anita Kaushal could not attend the meeting due to prior engagements.

Prof. Ramakrishna Wusirika, Prof. Anjana Munshi and Dr. Felix Bast were granted leave of absence.

The Chairman and Vice Chancellor, Central University of Punjab extended a warm welcome to the members to the 15th meeting of the Academic Council and thanked them for sparing their precious time for contributing towards the academic growth of the University.

Item:No:AC:15:2017:1

To confirm the minutes of the 14th meeting of the Academic Council held on 16th March 2017.

The Secretary informed that the draft minutes of the 14th meeting of the Academic Council were circulated to all the members of the Council on 31st March 2017.

The Council was also informed that minor corrections suggested by Prof. S.S. Chahal and Prof. Ramakrishna Wusirika were incorporated in the minutes. The final minutes were circulated on 24th April 2017. The Chairman sought comments, if any, from the members on the item. There were no comments.

RESOLVE

The Academic Council, unanimously RESOLVED, to confirm the minutes of the 14th meeting of the Academic Council held on 16th March 2017.



Item:No:AC:15:2017:2

To consider the Action Taken Report (ATR) on the decisions of 14th meeting of the Academic Council held on 16th March 2017.

The Secretary informed that subsequent to the circulation of final minutes, the concerned Centers/officers/ officials implemented the decisions taken by the Academic Council in its 14th meeting.

The details of the actions taken were presented to Council as placed at Annexure-15.1.

Note: The members pointed that in 14th meeting vide Item:No:AC:14:2017:8, a fiv e member Sub-Committee to formalize the nomenclature of degrees, courses and their placement in various Centres and Schools for Humanities before the admissions of 2018-19 was already constituted under the Chairmanship of Prof. K. N. Pathak. It was also resolved that this Sub-Committee will meet in Chandigarh. It was agreed that the same shall be notified and related documents made available to the Sub-Committee so as to streamline the nomenclatures of degrees, courses and their placement in various centres and Schools well in time before next year (2018-19) admissions. Prof. P. Ramarao, Dean Academic Affairs who is aware of the whole structure shall coordinate the meeting at Chandigarh.

RESOLVE

The Academic Council NOTED the Action Taken Report on the decisions of the 14th meeting of the Council held on 16th March 2017 and expressed satisfaction.

The Council RESOLVED to make suitable amendments in Item: No:AC:14:2017:8 as recommended. It further resolved to notify the sub-committee so that the issue of cours e nomenclatures and placement in Schools be settled as early as possible.

Item:No:AC:15:2017:3

To consider report on the progress of the University by the Vice Chancellor.

The Vice Chancellor shared about progression in the number of academic programmes offered by the University since its starting in 2009. It was also informed that demand ratio for current academic session (2017-18) for PG programmes is 1:41 and for Ph.D. programmes is 1:72.

While discussing new courses, M.Com. and M.A. in Journalism and Mass Communication, being started from the academic session 2017-18, it was informed that ad-hoc faculty appointments have been made for these courses as the University was not aware of the number of students who will take admission in these courses. The process of regular appointments has also started.

The members suggested that the University may appoint retired Professors on contractual basis for such courses. The Council was informed that the University has been trying to appoint senior/retired professors but they are not

willing to move to Bathinda. Further, the University does not have accommodation for senior people who may join the University.

Also, while discussing new courses started from the current academic session, it was suggested by members that the nomenclature of the degrees should be as recognized by UGC. It was noted that nomenclature of M.Sc. Applied Chemistry was changed to M.Sc. Chemistry (Applied Chemistry) in 14th Academic Council meeting. The members suggested that the name of the degree be changed as M.Sc. Chemistry and accordingly consent be taken from studen ts admitted to this course. The Council was informed that as the University is already offering M.Sc. Chemistry as per specified seat limit, merging of the two courses under same nomenclature will increase the approved capacity of the course. It was suggested and agreed to that Applied Chemistry be offered as a specialization like Physical Chemistry, Organic Chemistry, Inorganic Chemistry. This will enhance their eligibility for employment.

The other details included status of cumulative student strength vis-à-vis previous years, filled positions (both teaching and non-teaching) w.r.t total sanctioned positions, research projects at CUPB and academic collaborations with research and educational institutions.

While considering student strength in previous years, one of the members pointed out that there is a steep increase in number of admitted students (513) in 2015-16 as compared to students admitted in 2014-15 (192). Also, in academic year 2016-17 only 407 students were admitted as compared to 513 in 2015-16. The member suggested that a committee of the University may study the reasons for such changes. The Council was informed that as in 2015-16 new conventional courses were started and the University received a very good response to these courses hence there was a remarkable increase in number of students admitted From the year 2016-17, old unconventional courses like. Nano-Physics etc and M.Phil Programme, M.Phil-Ph.D. Integrated Programmes, which were earlier running were discontinued on completion. Consequently, there was a decrease in number of admitted students. This year the student strength is expected to increase

The members suggested starting of 5 year Integrated Programmes and Honour Schools. The Chairman said that the University is facing an acute paucity of space for classrooms, laboratories, hostels and other space related facilities e.g. mess, playground etc. Such programmes can only be started after shifting to main campus.

The Vice Chancellor also informed that during his recent visit to China under INSA Bilateral Exchange Programme, MoUs with two institutes of the Chinese Academy of Sciences viz. - Xishuangbanna Tropical Botanical Garden, at Xishuangbanna and Kunming Institute of Botany in Kunming. Both are in Yunnan Province were signed.

Further, it was informed that under Distinguished Lecture Series of Ministry of External Affairs, Shri Ashok Sajjanhaar, Former Diplomat, delivered a lecture on 'Indian-Central Asia Relations: The Emerging Partnership'.

Another lecture 'Importance of Lokpal' was delivered by Justice S.K. Mitta, Lokpal and Former Chief Justice, High Court of Rajasthan.

One day regional workshop on "Prime Minister's Fellowship Scheme for Doctoral Students" sponsored by SERB-DST was held in association with CIT. Dr S. S. Kohli, Advisor of the Ministry of Science and Technology and Prof. Samir K. Brahamchari and Dr. Shalini of CII delivered lectures.

Like last year, the University organised Yoga Week which culminated imcelebration of International Yoga Day on 21st June 2017.

The presentation concluded with explaining the status of construction work songoing at the Main Campus of the University.

The detailed presentation is at Annexure-15.2.

RESOLVE

The Academic Council RESOLVED to accept the report of the Vice Chancellor with appreciation and expressed satisfaction over the progress made by the University sinc € 16th March 2017.

Item:No:AC:15:2017:4

To re-consider change of nomenclature of degrees of Center for South & Central Asiam Studies (Including Historical Studies).

The Secretary informed that the Deans' Committee in its 6th meeting considered the request received from the students of Centre for South & Central Asian Studies seeking change in the nomenclature of their degree of the course, M A in South & Central Asian Studies (Including Historical Studies). They had requested that, keeping in view the employability of the students, the degree should be given in basic subject which may enable them to compete for employment.

The Secretary said that the Deans' Committee had deliberated on the issue in detail and recommended that the nomenclature of degree be changed to M.A. Political Science with specialization in South and Central Asian Studies and M.A. History with specialization in South and Central Asian Studies.

Further, the Secretary added, that the Academic Council vide Item:No:AC:14:2017:8 considered the recommendations of the Deans' Committee and resolved to approve the change in nomenclature of degrees of Centre for South and Central Asian Studies, as recommended by the Deans' Committee. The Executive Council vide Item:No:EC:24:2017:31, resolved, to accept and the recommendations of the Academic Council, w.e.f. admissions of 2015-16.

Subsequently, another application was received from the students of M.A. History (2015-17 batch, 2016-18 batch), and M.A. Political Science (2015-17 batch, 2016-18 batch. The students have submitted that they were admitted to their respective courses

at CUPB through CUCET 2015 and CUCET 2016 respectively. The CUCET 2015 and 2016 notifications mentioned that the degrees to be conferred to the success ful candidates upon completion of the course would be M.A. History and M.A. Political Science. However, the AC and EC in their 14th and 24th meetings respectively have changed the title of courses to M.A. History (with specialization in South and Central Asian Studies) and M.A Political Science (with specialization in South and Central Asian Studies).

The Council was informed that the students have requested to reconsider change in the name of the courses to that in which they were enrolled in, because they have not studied any subject regarding South and Central Asian Studies during their M.A. programmes. It was added that the University has yet to implement this change of nomenclature, as earlier resolved.

A member said that this is a very serious matter. The earlier change in nomenclature was as recommended by the Deans' Committee. Now, this request to re-consider the resolve of AC and EC has been brought to the Council without any comments of the Deans' Committee.

RESOLVE

The Academic Council, after detailed discussion, unanimously RESOLVED to refer the item back to the Deans' Committee which should consider the case in detail, check the syllabi of these degrees as compared to nomenclature and accordingly change the nomenclature, if required for the existing courses. The Deans' Committee should also consider and recommend the Centre's nomenclature in view of the degrees offered by it. The Sub-Committee that has been constituted for looking into the nomenclatures of the degrees and the Centres offering them, should consider the recommendations and settle the issue for the future.

The Council FURTHER RESOLVED to authorize the Vice Chancellor to take decision on the matter in view of the forthcoming convocation.

Item:No:AC:15:2017:5

To consider continuation of Diploma in Green Farming Technology under the scheme of Community College.

The Secretary informed that vide D.O. No. F.1-81/2015(CC) dated 15th June 2015, UGC approved the University's proposal for starting **Diploma in Green Farming Technologies** under the Scheme of Community College. Further, UGC also approved a grant of Rs. 65.96 Lakhs to the University for a period of 2 years for running the course.

It was added that the course involves three steps; first year as Diploma, second year as Advanced Diploma and the final year as B. Voc. The programme is highly beneficial for society for agriculture communities. This comes under Unnat Bharat Abhyaan Skill Development India Programme. Further, EC in its 24th meeting on 20th March 2017, approved the extension of course up to B.Voc. level in view of the fact that the course cannot be stopped halfway through.

The Council was informed that the 2 year period for which permission was grante—I has been completed with end of this session. The course was run successfully durin—gethe session 2015-16 and 2016-17 (2 batches passed out). The course mainly involve s skill development and innovations in agriculture technology.

The Secretary said that, there is no information regarding the continuity of this Scheme from UGC. It was also explained that out of the total grant received, expenditure of nearly Rs. 40 lakhs was made and nearly Rs. 30 lakhs is still available. The UGC has been requested to allow the utilization of the balance funds, the approval of which is awaited.

Since this is one of the popular skill development course and is directly related to the agriculture community, the Community Development College has requested that the course may be allowed to continue. Permission was sought from AC for admissions in Diploma and Advanced Diploma programs during current session (2017-18), subject to approval from UGC.

RESOLVE

The Academic Council, after detailed discussion, unanimously RESOLVED to approve the continuation of Diploma in Green Farming Technology under the scheme of Community College, subject to no objection of UGC/MHRD on the financial aspects which is awaited.

Item:No:AC:15:2017:6

To consider appointments of the renowned educationists as Visiting/Adjunct Professor.

The Secretary informed that the University has most of the senior faculty position a vacant. It was proposed that the following renowned educationists may be considered for appointment as Visiting/Adjunct Professor; in light of the guidelines for Empanelment of Adjunct Faculty in Universities (Annexure-15.3):

- a) Prof. R.C. Verma, Physics
 (Bio data at Annexure-15.4)
- b) Prof. Brindaban Chandra Ranu, Organic Chemistry (Bio data at *Annexure-15.5*)
- c) Prof. S. S. Chahal, Pathology (Bio data at Annexure-15.6)
- d) Prof. A. N. Gill, Statistics (Bio data at Annexure-15.7)
- e) Prof. Satish Kapoor, History (Bio data at Annexure-15.8)
- f) Prof. Ashok Sahni, Geology (Bio data at Annexure-15.9)

The Chairman suggested to renew the appointment of Visiting Professor of Dr. Debasish Banerji, who had been rated as the best teacher as per the feedback from the students. Prof. Chahal pointed out that those who have crossed 70 years of age should not be appointed as per the guidelines. It was agreed to.

RESOLVE

The Academic Council, after detailed discussion, unanimously RESOLVED to authorize the Vice Chancellor to consider the appointment of renowned educationists as Visiting/Adjunct Professor, who fulfill the criteria as per UGC Guidelines for Appointment of Adjunct Faculty/ Visiting Professor in Universities.

Item:No:AC:15:2017:7

To consider regarding submission of number of copies and form of submission of Dissertation/Project Report.

The Secretary informed that at present the students of M.A./M.Sc./M.Tech./M.Pharm./LL.M./M.Ed. are required to submit five hard bound copies of Dissertation/Project Report for evaluation. The Projects Report(s) submitted by M.A./M.Sc. students are internally evaluated whereas the Dissertation of M.Tech./M.Pharm./LL.M./M.Ed. are sent for external evaluation.

It was further informed that the M.A. and M.Sc. students have submitted representation dated 9th June 2017 stating that approximate cost of printing and binding of Dissertation/Project Report comes to Rs. 3,000/- to Rs. 5,000/- and is a financial burden on them. They have requested to allow submission in spiral bound form.

Keeping in view of the request of M.A./M.Sc. Students, the Academic Council was requested to consider reducing the number of copies and form of submission (hard bound or spiral bound) of Project Report.

The Council discussed the matter in detail. Some members suggested that digital form of dissertation/CDs should also be taken from students. It was informed to the Council that the University already takes a digital copy. Another member suggested that spiral bound copies can be reopened and papers can be changed at a later stage, the University should insist on hardbound copies only. The other alternative is to accept draft dissertation in thread bound copies. However, the final copies should only be in hardbound from.

RESOLVE

The Academic Council, after detailed discussion, unanimously RESOLVED to approve submission of final Project Report/dissertation as follows:

(a) For M.A./M.Sc. courses where the evaluation is internal: Two (02) hard-bound copies (one for the library and one for the guide/Centre after evaluation) in addition to a soft copy CD.

(b) For professional courses like, M.Tech./M.Pharm. /LL.M./M.Ed. where evaluation is external: Three (03) hard-bound copies (one for the library, one for the examiner and one for the guide/Centre) in addition to a soft copy CD. The copy if received back from the examiner with comments thereon could be returned to the student after declaration of the result.

Item:No:AC:15:2017:8

To consider the draft rules for Master's and Ph.D. Programme applicable w.e. ■. Academic Session 2017-18.

The Council was informed that at present day-to-day work relating to Master's Programme is governed by the Master's Degree Programme Rules & Regulation s (applicable w.e.f. Academic Session 2015-16) and Ph.D. Programme is governed by the Rules and Regulations for the Ph.D. Programme.

Above mentioned rules have been amended by the Statutory Bodies of the University from time to time as per requirements to improve the system and rectify the issues being faced in day to day working.

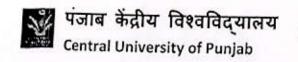
The Secretary added that keeping this in view, the University has redrafted new rule is after incorporating all the amendments and also incorporating some other issues .e.g. on unfair means, process of Registration & Reappear in examination, Evaluation of Dissertation/Project etc. which are not covered under the existing rules. An effort has also been made to be specific in every rule where it earlier seemed to be silent. The Ph.D. rules have been prepared in accordance with the UGC (Minimum Standards and Procedure for Award of M.Phil./Ph.D. Degree) Regulations, 2016. After that draft rules were circulated among all the faculty members for their suggestions/views in this regard.

Further the suggestions and views which were received from the faculty members have also been incorporated. After that a Committee consisting of All Deans, Associate Deans and Controller of Examinations was constituted to examine and finalize the draft rules. The Committee deliberated and examined the draft rules for Master's and Ph.D. Programmes applicable w.e.f. academic session 2017-18. The Committee discussed in detail on various aspects and corrected the draft rules.

The draft rules for Master's and Ph.D. Programmes applicable w.e.f. Academic Session 2017-18 were presented to the Council as placed at *Annexure 15.10* and *Annexure 15.10*, respectively.

The Council suggested deletion of the word 'minimum' at point 5.2 of Rules for Master's Degree Programme (Page 96 of the Agenda). It was agreed to.

The Council also considered in detail the point 13.11 (Annexure 15.10) under 'Examination and Evaluation' of Rules for Master's Degree Programme (Page 104 of the Agenda). The Council after detailed discussion recommended that the students who could not clear paper (s) in 3rd semester may be allowed to reappear in exam along with the examination of 4th semester. However, a 4th semester student may be



allowed only one special chance to reappear in examination in summer break provided such student should not have any other backlog of another semester.

RESOLVE

The Academic Council, after detailed discussion, unanimously RESOLVED to approve the draft rules for Master's and Ph.D. Programmes applicable w.e.f. academic session 2017-18, with amendments as recommended above.

Item:No:AC:15:2017:9

To consider the rules and regulations for extension in the Ph.D. duration due to unavoidable circumstances.

The Secretary apprised that several scholars registered for Ph.D. are approaching the higher authorities for extension in the date for submission of Ph.D. thesis. In this connection following was proposed to the Council:

- No Ph.D. scholar shall be allowed in the hostel beyond the 5 years of the hostel stay.
- 2. The scholar who is registered in Ph.D. and fulfils all the requirements as per UGC-2009/2016 regulations and is not able to complete the degree in the stipulated time due to reasons beyond his/her control (health/technical reasons related to research topic/ any other reason deem to be fit in view of the competent authority) may be given extension subject to:
 - A fine of Rs.500/-.
 - b. On payment of the semester(s) fee as per University rules.
- 3. Those Ph.D. scholars who have not fulfilled UGC requirements such as publishing of 1 research paper as per UGC regulations of 2009 and 2016 respectively, may be given extension subject to:
 - a. A fine of Rs.500/- or more, as decided by Council.
 - b. On payment of the semester(s) fee as per University rules, till completion of the UGC requirements.

The Council considered the agenda item in detail as per UGC regulations for Ph.D.

RESOLVE

The Academic Council unanimously RESOLVED that notwithstanding what is contained in the Regulations for Ph.D. Programme, the Chairperson, Academic Council may in exceptional circumstances and on the recommendation of the School Board concerned or an appropriate committee on the merits of each individual case and for reasons to be recorded, allow relaxation of any of the provision except those prescribing CGPA requirements and the Clause 17 (vi) of these regulations. The Clause 17 (vi) reads as 'The University shall issue degree in accordance with the provisions of UGC (MINIMUM STANDARDS AND PROCEDURE FOR AWARD OF M.Phil./Ph.D. DEGREE), REGULATIONS, 2016.



Item:No:AC:15:2017:10

To consider allowing the International students to take admission in Ph.D. programm e as self-sponsored candidates.

Mr. Shivanshu Kumar Tiwari from Nepal applied for admission in Ph.D. (Life Sciences). But the Admission Committee for International Students has put on hold the admission till the competent authority approves the admission of International Ph.D. students without fellowships.

The Secretary presented that as per policy there are three categories under which the admission of international students is made (Annexure-15.13). The first category deals with direct admission of students who wish to join under self-financed category. The Admission committee suggested that since Indian students are not given admission without fellowship, therefore same condition may be applied to International students also.

It was told that the admission criteria for Ph.D. international students is different than the Indian students, therefore, it was separately approved by AC/EC. Moreover, there are supernumerary seats for International students in all programmers which is already approved by AC/EC (Annexure-15.13). The fee for foreign/international students (except those from SAARC countries) is in foreign currency (US Dollar) and is more than the national/SAARC countries students.

Owing to the above facts, the Council was requested to consider the admission of International Students in Ph.D. programme as per self-sponsored criteria.

The Council discussed the agenda Item in detail and recommended that this provision should be for Foreign Students and not International Students.

RESOLVE

The Academic Council, after deliberation, unanimously RESOLVED to approve the provision of admitting Foreign Students (holding passport other than Indian) in Ph.D. programme as self-sponsored candidates.

Item:No:AC:15:2017:11

To consider modifications in the Guidelines of the University on Plagiarism.

The Secretary informed that the Executive Council in its 15th meeting vide Item No. EC:15:15:38 approved the Guidelines to Check Plagiarism. These guidelines impose all the responsibility of the plagiarism on the supervisor. A copy of the Guidelines are placed at *Annexure-15.15*.

Further in view of certain complaints received from University faculty that some students resort to plagiarism and most of the times the software fails to catch these cases, since majority of the University Ph.D./M.Phil. these are not digitized and are not on the search engine data bases.

The University proposes following modifications in the approved Guidelines on Plagiarism:

The research scholar shall give an undertaking that there is no plagiarism (tested
on the basis of a software) and declare that no act of plagiarism and violation of
copyright regulation has been done. He/she will also certify that the work has not
been submitted for award any other degree in this University or another
University/ institute in India or anywhere in the world.

Further, the research supervisor shall submit a certificate that he/she
guided/supervised and have gone through the thesis and is satisfied that there is no
component of copying or plagiarism as per the copyright Act/ Rules again st

Plagiarism.

In case, subsequently, it is found any of the above mal-practices, committed by
research Scholar the University can take necessary action against research
Scholar.

The Council noted that the Item does not have recommendations of any Committee and suggested to defer this Item. It was also informed that the UGC is also framing the Regulations/Guidelines on the issue. These are expected to be passed and implemented shortly.

RESOLVE

The Academic Council unanimously, after due discussion, RESOLVED to defer this item till the UGC implements the regulation under preparation on the issue. In the meantime, it be discussed in the Dean's Committee and amendments, if any, be brough to back to the AC in a tabulated form indicating the existing and the proposed modifications/additions/deletion to the Guidelines.

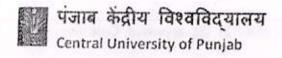
Item:No:AC:15:2017:12

To consider the conversion of vacant sents of SC/ST/OBC category to General

The Secretary explained that the 1st counselling for admission in Master's Programme for Academic Session 2017-18 has been completed on 1st July, 2017. Mostly, seats reserved for SC/ST/OBC category are lying vacant. The 2nd Online Counselling is under process and the date of submission of online application forms has been extended up to 15th July, 2017 so that more candidates get opportunity to submit online counselling form. The date for remittance of the fee that will lock the seat is fixed for 20th July, 2017. It is expected that after the 2nd counselling and deposit of fee (last date 20th July 20147) a few seats in SC/ST/OBC category may remain vacant.

In view of the above, it was proposed by that the Academic Council may authorize Vice-Chancellor to consider conversion of the vacant seats of SC/ST/OBC category in to General category, if seats remain vacant after the 2nd counseling/locking of the seat.

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RESOLVE

The Academic Council, unanimously RESOLVED to approve the conversion of vacarant seats of SC/ST/OBC Category to General Category, provided the seats are converted on exhaustion of the available list of applicants. While making the vacant seats open, out of SC/ST/OBC and General Category candidates, preference be given to reserved category over the General Category since the seats belong to the former.

Item:No:AC:15:2017:13

To consider the date of 3rd Convocation of the University.

The Council was told that passing out students of Master's, M.Phil. and Ph.D. Programmes are to be awarded degrees in the 3rd Convocation.

It was proposed that the Council may consider approving 12th September, 2017 as the date of 3rd Convocation.

RESOLVE

The Academic Council felt that fixing of the date of Convocation is the prerogative of the Chancellor and unanimously RESOLVED to authorize the Vice Chancellor to fix the date of the 3rd Convocation in consultation with the Chancellor.

Item:No:AC:15:2017:14

To consider the list of students for award of degree at the 3rd Convocation of the University.

The Secretary informed that the list of Ph.D. students who as on 4th July, 2017 have completed the requirements for award of the degree and are eligible for award of the degree in 3rd Convocation, is as placed at Annexure-15.15.

Further, the list of 183 students of Master's Programme (M.A., M.Sc. and M.Phil.) who as on 4th July, 2017 have completed the requirements for award of the degree in 3rd Convocation is as placed at Annexure-15.16.

RESOLVE

The Academic Council, unanimously RESOLVED to approve the award of degrees to the students as per lists placed at Annexures 15.15 and 15.15.

The Council FURTHER RESOLVED to authorize the Vice Chancellor to approve and include the names of such students whose results get announced subsequent to the above list but before the date of convocation.



Item:No:AC:15:2017:15

To consider adoption of UGC (Credit Framework for Online Learning Courses through SWAYAM Regulations, 2016.

The Secretary informed that SWAYAM platform is an indigenous platform of the Gol which hosts MOOCS (Massive Open Online Courses) to enable the students to virtually attend the courses taught by the best faculty; access high quality reading resources; participate in discussion forums; take tests and earn academic grades.

It was added that in this regard, the GoI has identified eight National Coordinators from School to Higher Education level. UGC has been identified as the National Coordinator for developing non-technology PG MOOCS. UGC is already in the process of developing high quality, curriculum based e-content at PG level in four quadrants i.e. e-text, video lectures, self-assessment and self-learning under the e-PG Pathshala programme of NMEICT. About 12,000 such modules are already uploaded on the e-PG Pathshala website. This e-content is now being repurposed into MOOCS to be delivered as online courses on the SWAYAM platform by various universities with the provision of credit mobility across educational institutions. UGC has also issued Regulations for Credit Framework for online learning courses through SWAYAM to allow credit transfer on the basis of these MOOCS in 2016 (Annexure-15.17).

The Chairperson said that SWAYAM shall notify on 1st June and 1st November each year the list of online courses going to be offered in the forthcoming session. All Institutions shall, within 4 weeks from the date of notification of SWAYAM, consider through their competent authority online learning courses being offered, and keeping in view their academic requirements, decide upon the courses which it shall permit for credit transfer.

As per these regulations, an Institution can allow only up to 20% of the total courses bring offered in a particular program in a semester through the online learning courses provided through SWAYAM platform.

Also, the parent Institution shall give the *equivalent credit weightage* to the students for the credits earned through online learning courses through SWAYAM platform in the credit plan of the program.

RESOLVE

The Academic Council, RESOLVED to approve in principle adoption of UGC (Credit Framework for Online Learning Courses through SWAYAM) Regulations, 2016.



Item:No:AC:15:2017:16

To fix the date of the next meeting

The Council RESOLVED to fix the date of next meeting on 12th September 2017 i.e., befor € the 3rd Convocation.

The members appreciated the significant progress made by the university resolved again to put on record satisfaction and congratulated the Vice Chancellor for his efforts. The meeting ended with a vote of thanks to the Chair.

Dr. Jagdeep Single

Registrar & Secretary, Academic Council

Minutes Approved

Prof. R.K. Kohli

Vice Chancellor & Chairman Academic Council

Item No.	Decision in Brief	Action Taken
Item:No:AC:14:2017:1 To confirm the minutes of the 13th meeting of Academic Council held on 14th October 2016.	meeting of the Academic Council held on 14th	NOTED
Item:No:AC:14:2017:2 To consider the Action Taken Report (ATR) on the decisions of 13 th meeting of the Academic Council.	October 2016. The Academic Council NOTED the Action Taken Report on the decision of the 13 th meeting of the AC held on 14 th October 2016 and expressed satisfaction.	NOTED
progress of the University by	The Academic Council appreciated the progress made by the University since 14 th October 2016, and expressed satisfaction.	NOTED
members to the Academic Council.	The Academic Council unanimously RESOLVED to ratify the nomination of the following members to the Academic Council under Clause 13.8. 1. Prof. S.S. Chahal 2. Prof. Anita Kaushal	NOMINATED
ecommendations of the a received chance to Mr. Azad	The Academic Council deliberated on the issue and RESOLVED to approve the ecommendations of the Dean's Committee egarding not allowing mercy chance to Mr. Azad Ansari.	Letter issued (IMPLEMENTED)
ontinuing remaining work of a.D. research with evernment job w.r.t. Mr. gdish Singh.	the Academic Council deliberated on the above ecommendations of the Deans Committee and ESOLVED to Allow Ms. Jagdish Singh to continue remaining work of Ph.D. research work with government job. The Council also approved that similar cases in future may also be allowed to continue their remaining work of Ph.D. research only in case of getting a government job. Approve guidelines for availing zero semester ring Ph.D.	Letter issued (IMPLEMENTED)

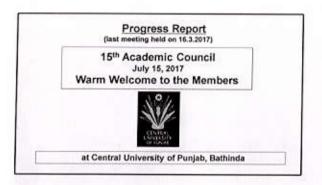
Item:No:AC:14:2017:7	100	
To consider admission of sdents for Centre for Pharmaceutical Sciences & Natural Products in Ph.D.	as recommended by the Deans' Committee,	NOTED Notification will be done in the prospectus for next ses sion Admission.
Item:No:AC:14:2017:8		
To consider change of nomenclature of degree of South & Central Asian Studies (Including Historical Studies).	recommendations of the Deans' committee and	Put up for reconsideration in 15 th AC meeting
Item:No:AC:14:2017:9		
To consider appointment of CoC and naming of new Centre formed after merger of the Centre for Comparative Literature & Centre for Classical & Modern Languages.	The Academic Council unanimously RESOLVED to approve the recommendations of the Deans' Committee.	IMPLEMENTED
Item:No:AC:14:2017:10		Number of the second
To consider amendment in Fegulations for Masters' Degree Programme.	The Academic Council considered the amendment in Clause 15 of the regulations for Maters Degree programme as recommended above and RESOLVED to approve the same.	IMPLEMENTED
Item:No:AC:14:2017:11		
To consider offering Computer Science and Statistics as University basic level courses.	The Academic Council deliberated on the recommendations of the IQAC and RESOLVED to approve offering of Computer Science and Statistics as University basic level courses.	BEING IMPLEMENTED from coming session
Item:No:AC:14:2017:12		
To consider the perspective plan for University spread over next 30 years with well-defined goals & objectives.	The Academic Council deliberated on the recommendations of the Planning Board and approved the prospective plans for phase wise growth for only the next five years.	NOTED
	16	

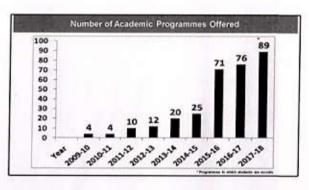
Item:No:AC:14:2017:13		
To consider starting of ne courses/streams/Centres in the University	recommendations of Planning Board IQAC regarding starting of new courses/streams/Centers and RESOLVED to approve starting of following new courses in 2017-18:	
•	a. M.Sc. Chemistry (Applied Chemistry) b. M.A. in Mass Communicate and Journalism c. M.Com.	-
Item:No:AC:14:2017:14 To consider	C. W.Com.	
a. Growing trees at Main Campus under Centre for Environment Science and Technology with aim to study root architecture and developing growth models.	RESOLVED to approve the above recommendations of the Planning Board.	UNDER IMPLEMENTATION
 Developing Botanical Garden/Arboretum and Medicinal Plant Garden at the Main Campus for education, research and development. 		
Item:No:AC:14:2017:15 To consider the methodologies for initiation of awards in the name of Indian/Indian origin Noble Prize winners to be given o eminent Indian research workers/ academicians.	The Academic Council considered the above recommendations of the Planning Board and RESOLVED to approve the modalities and methodologies for initiation of awards in the name of Indian/Indian origin Nobel Prize winner to be given to eminent Indian research workers/academician.	UN DER IMPLEMENTATION
em:No:AC:14:2017:16		
inutes of sixth meeting of	The Academic Council RESOLVED to approve, after due deliberations, the recommendations of the 6 th meeting of the IQAC.	NOTED

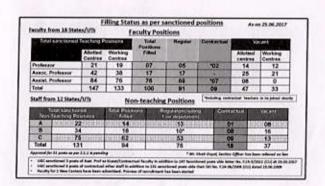
Item:No:AC:14:2017:17		
To consider: 1. Starting of three programmes, viz; M.Sc. Applied Chemistry, M.Com. and M.A. in Mass Communication & Journalism 2. Approval of courses and seats for the academic session 2017-18.	a. Names of Schools and Centers for M.Com. and M.A. Mass Communication & Journalism. b. Eligibility criteria and number of seats in	IMPLEIMENTED
Item:No:AC:14:2017:18		
To consider the recommendations of the School Board of School of Health Sciences.	RESOLVED to approve the syllabus of the	IMPLE I MENTED
Item:No:AC:14:2017:19 To consider the recommendations of the School Board of School of Environment and Earth Sciences.	The Academic Council unanimously RESOLVED to approve the syllabus of the Centre (s) under of the School Board for School of Environment and Earth Sciences.	IMPLEMENTED
To consider the recommendations of the School Board of School of Legal Studies and Governance.	The Academic Council unanimously RESOLVED to approve the syllabus of the Centre (s) under of the School Board for School of Legal Studies and Governance.	IMPLEMENTED
Item:No:AC:14:2017:21 To consider the recommendations of the School Board of School of Social Sciences.	The Academic Council after due deliberations, RESOLVED to approve the syllabus of the Centre (s) under of the School Board for School of Social Sciences.	IMPLEMENTED
Item:No:AC:14:2017:22 To consider the recommendations of the School Board of School of Education.	The Academic Council RESOLVED to approve the syllabus of the Centre (s) under of the School Board for School of Education.	IMPLEMENTED
recommendations of the School Board of School of Languages,	The Academic Council, unanimously RESOLVED to approve the syllabus of the Centre (s) under of the School Board for School of Languages, Literature and Culture.	IMPLEMENTED

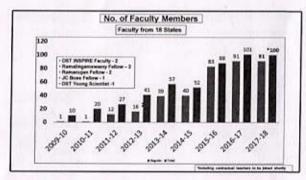
Item:No:AC:14:2017:24		
To consider recommendations of the Sch Board of School of Glo Relations.		4
To consider recommendations of the School of Engineeri and Technology.	The state of the state of the state of the	
Item:No:AC:14:2017:26 To consider to recommendations of the School Board of School of Basic an Applied Sciences.		IMPLEMENTED
Item: No: AC:14:2017:27 To consider rectification is decision of AC and Edited regarding extension period of Ph.D. students of M.Phil. Ph.D. integrated programme.	RESOLVED to approve may like to consider the above rectification in the decision of AC and EC	IMPLEMENTED
Item:No:AC:14:2017:28 To consider the approval o course work and syllabus for MPhil- Ph.D. integrated programme in Comparative Literature.	course work and syllabus of Ph.D. programme in	IMPLEMENTED
Item:No:AC:14:2017:29 To consider starting of B. Voc. in Agriculture (Green Farming Technologies) –for students of Advanced Diploma in Agriculture.	RESOLVED to approve starting of B. Voc. in	IMPLEMENTED
Item:No:AC:14:2017:30 To consider University Prospectus for admissions for the academic session 2017-18.	The Academic Council unanimously RESOLVED to approve University Prospectus for admissions for the academic session 2017-18.	IMPLEMENTED
Item:No:AC:14:2017:31 To consider the Academic Calendar for session 2017-18.	The Academic Council, unanimously RESOLVED to approve University Academic Calendar for the academic session 2017-18.	IMPLEMENTED

Item:No:AC:14:2017:32 To consider the curriculum of M.Com.	The Academic Council after deliberations, RESOLVED to approve the curriculum of M.Com. for the academic session 2017-18.	IMPLEMENTED
Item:No:AC:14:2017:33 To consider the curriculum of M.A. in Mass Communication & Journalism.	The Academic Council after deliberations, RESOLVED to approve the curriculum of M.A. in Journalism Mass Communication for the academic session 2017-18.	IMPLEMENTED
Item:No:AC:14:2017:34 To consider the curriculum of M.Sc. Applied Chemistry.	The Academic Council after deliberations, RESOLVED that the Centre should bring back the curriculum of M.Sc. Chemistry (Applied Chemistry) to AC after relevant changes as per the change in the name of the course.	UN DER IMPLEMENTATION
Item: No: AC: 14:2017:35 To consider introducing the provision for non-teaching summer courses during the summer for graduating students.	The Academic Council RESOLVED to withdraw this Item from the agenda of the current meeting for want of more clarity.	UN DER IMPLEMENTATION
To fix the date of the next meeting of the Academic Council	The Council authorized the Vice Chancellor to fix the date of the next meeting as per need.	Meeting fixed for 15 th July 2017.

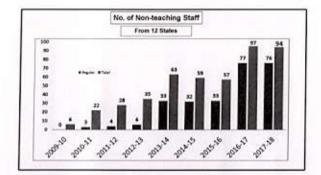


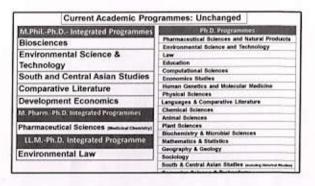


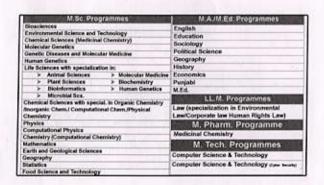




Layer sort of









New Masters Degree Programmes offered

The University offered the following two new Master Degree courses from academic session 2017-18

M.A. in Mass Communication & Journalism

· M.Com.

Admissions 2017-18 (through CUCET)

University conducted CUCET exam in 5 Centres namely Amritsar, Bathinda Patiala, Ludhiana & Shimia.

36 PG, 18 Ph.D. Total Programmes:

30,101 applications for 726 seats Demand ratio of 1:41 For PG programme:

7,281 applications for 100 seats Demand ratio of 1:72 For Ph.D. programme:

Online Counselling is going on. Response is very good

So far ~80% seats (PG) have been filled.

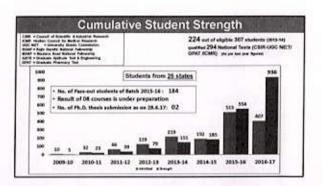
Admissions to MBA Agribusiness made through CUCET & CAT/GMAT

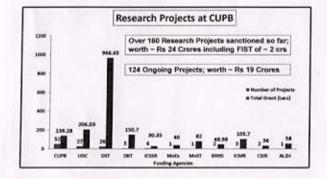
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١.	Life Sciencer (Specs, in Animal Sciences)	25	12	\mathbf{n}			21	100	0	100	20720	1112
2,	Life Sciences (Specs, in Microbial Sciences)	216	100	2	1	4	NESS.		0	0	0	0
2.11	Life Sciences (Specz. in Biochemistry)	26	12		1	100	22	100.00	0	100	1200	m
4.	Life Sciences (Specz. in Bioinformatica)	16	0.00	2		4	185	E 33	0	100	100	100
A.III	Life Sciences (Specz, in Hussan Genetica)	20	10	100	1	100	190	100	110	0	100	100
K.II	Life Sciences (Specs, in Molecular Medicere)	20	10	3	2	140	10.	9	100	100	100	100
y	Life Sciences (Specz, in Plant Sciences)	36	16	100	100	100	110	2.		0	12	7
B) III	Food Science and Technology	10183	100		- 1	140	18	0.		0	. 5	T a
-	Chemistry	28	(12)	100	2	573	28	0	0	0	0	0
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16.	Chemical Sciences (Medicinal Chemistry)	100	7.1	1	A.	63	0123	0	I A S	5166	100	2
1	Physics	78	12	4	1	7	28	0	0	.0		
or.	Environmental Science and Technology	26	10	-	100	100	25	0.1	4	.0		200
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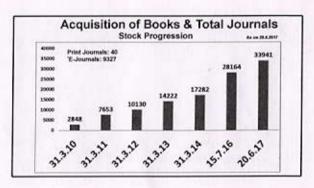
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	M. Pharm, in	1000	Core	36	(37)	096	Artes	Oine	×	11	100	1
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21	M. Yesti. Computer Science & Technology (CST)	243	10	2		120	DV 11	12.0		3		-34
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13	M.Com.	246	13	10	0		8245	100		100		100
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M	M.A. Education	11.	9.0		4	101	100	2	3	10	4	100
113/	TOTAL	711	296	26	22	100	100	000	30	20	-	148

Forthcoming Academic Activities 2017-18

- Registration of students 20th July 2017
- Orientation Programme 21st & 22nd July 2017
- 3rd Convocation
- 12th Sep. 2017







Visit to China under INSA Bilateral Exchange Programme

Under the framework of INSA Bilateral Exchange Programme 2017, and on the recommendation of Inter-Academy Exchange Committee, Vice Chancellor visited China from May 21 to June 2, 2017. Local hospitality & internal travel in China was borne by Chinese Academy of Sciences.

MoU with the following two good institutes were signed:

Detailed Report

Xishuangbanna Tropical Botanical Garden, Chinese Academy of Sciences, Yunnan Z. Kunming Institute of Botany, Chinese Academy of Sciences, Kunming.



MoU signing with XTBG, CAS



Academic Collaborations with Research & Educational Institutions

Distinguished Lectures Series

Under the Distinguished Lectures Series of Ministry of External Affairs, Shri Ashok Sajjanhaar, Former Diplomat, delivered a lecture on "India-Central Asia Relations: The Emerging Partnership" on 24th May 2017 at CUPB.







Lecture by Mr. Justice S.K. Mittal

Hon'ble Mr. Justice S.K. Mittal, Lokpal and Former Chief Justice, High Court of Rajasthan, has delivered a lecture on 'Importance of Lokpal' on March 25, 2017 at CUPB. Faculty and students attended the lecture. He talked about the Lokpal and its other elements of importance.







15th Academic Council Meeting 15th July 2017

One Day workshop on "Prime Minister's Fellowship Scheme for Doctoral Students"

CUPB in association with CII, SERB & DST, Government of India organized one day outreach workshop on Prime Minister's Fellowship Scheme for the aspiring Ph.D. students on 3rd May 2017. Dr. Sameer Brahamchert, J.C. Boss National Fellow, Former DG, Council of Scientific and Industrial Research, Mr. 5.5. Kohli Member Secretary, Apex Council - PM Fellowship Schemer, Scientist '07, DST & Ms. Shalini Sharma from CII were the main guests during the workshop. About 193 participants from all over Punjab registered for the workshop.







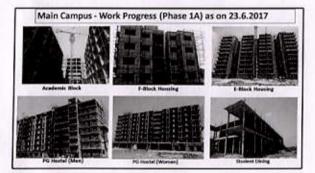
Yoga Week and International Day of Yoga 2017

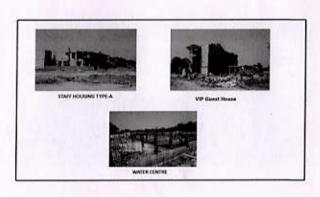
As desired by MHRD, the University celebrated Yoga Week from 14th June, 2017 to 21st June, 2017 at its City Campus. Faculty, students & staff have actively participated during the long week celebrations. The purpose was to motivate and educate the community about the benefits of Yoga. Approximately 100 participants had registered for the event.

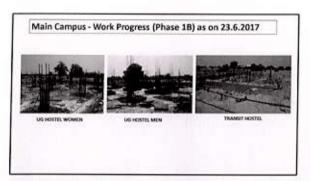












THANKS

Guidelines for Empanelment of Adjunct Faculty in Universities and Colleges



UNIVERSITY GRANTS COMMISSION BAHADUR SHAH ZAFAR MARG NEW DELHI

Website: www.ugc.ac.in

Guidelines for Empanelment of Adjunct Faculty in Universities and Colleges

1. Preamble

The expectations from the higher education system have undergone a significant chan so over the last few years. The key thrust has been on improving the employability prospects of the graduates and also improving the quality and quantum of research. Therefore, it becomes imperative to involve experts, professionals and researches from diverse fields to contribute to the emerging needs of higher education system. The Indian higher education system is poised to make itself more relevant to the needs of industry and employment opportunities keeping in mind the rapid changes in job requirements and needs of the economy.

Taking an integrated initiative towards skill development and upgradation of the competencies, the Commission has recently launched three new schemes namely Commun ity Colleges, B.Voc degree programme and Deen Dayal Upadhyay KAUSHAL Kendras. Universities and colleges offer courses from certificate up to postgraduate and research level degrees aimed at skill development and upgradation to meet the existing and emerging economic and industrial needs at the regional and national level under these scheme. The courses are offered with active involvement of industry partners in governance, curriculum development, delivery of courses and assessment of learners. Acute shortage of quality faculity is widely felt in the system of higher education as a whole. However, it is felt more prominently in skill based courses.

It is well realized that there is lot of creative talent and intellectual resources available with in the country that are not formally connected to the higher education system. It is imperative that the expertise and experience of such Individuals, who are outside the main stream academic system, flows into our universities. This would enhance, strengthen and improve the quality of teaching, training and research. The current massive expansion phase in higher education, mandating huge programmatic diversity, also requires that faculty resources be augmented by utilizing the services of superannuated academics, reputed scientists, engineers, physicians, advocates, artists, civil servants including skilled professionals, both serving and retired. It is also essential that such faculty is hired with the same degree of rigour as adopted for full-time faculty so that right type of candidates are identified for such assignments. It is also necessary to have uniformity and transparency in the process of hiring adjunct faculty in the institutions of higher education.

2. Objectives:

2.1. To develop a useful and viable collaboration between institutions and industry and enhancing quality of education and skills by involvement of academicians, scholars, practitioners, policymakers and skilled professionals in teaching, training, research and related services on regular basis;

- 2.2. To attract distinguished individuals who have excelled in their field of specialization like science and technology, industry, commerce, social research, media, literature, fine arts, civil services and public life into the academic arena, to enrich the overall learning processes by bringing external perspectives to regular teaching. Such interactions are expected to foster trans-disciplinary approach and synergize the outside 'real world' experience with the inside intellectual pursuits in the university;
- 2.3. To promote the interaction of skilled professionals with the learners and facilitate the imparting of industry relevant standards in skills, acceptable nationally, which could fulfill the need for skilled workforce and also to undertake R&D in the areas related to skill education & development, entrepreneurship and employability etc;
- 2.4. To enable higher educational institutions to access the eminent teachers and researchers who have completed their formal association with the university/college, to participate in teaching, to collaborate and to stimulate research activities for quality research at M. Phil and Ph. D. levels; and to play mentoring and inspirational role;
- 2.5. To recognize the skills of professionals in their respective areas of excellence irrespective of their academic qualifications to impart training to the learners of skill based vocational courses in Universities and Colleges.

3. Target Groups:

Professionals, experts, officials and managers having experience of working in:

- 3.1. Teaching and research organizations supported by bodies like ICAR, ICSSR, CSIR, ICMR, DRDO, Central and State Universities, etc.
- 3.2. Central and state public sector undertakings (PSUs), business corporations, NGOs and professional associations.
- 3.3. Civil servants (IAS / IPS / officials from Central and Provincial Services) and professionals & officials from professional councils and statutory bodies like UGC and AICTE, both serving and retired;
- 3.4. Skill training providers recognized by National Skills Development Corporation and / or Sector Skill Councils in their respective area for skills education and training;
- 3.5. NRIs and PIOs working with overseas academic, research and business organizations or having a demonstrated interest in Indian issues.
- 3.6. Skilled professionals working in organized and unorganized sectors known for their hands-on skilling techniques and expertise.

4. Engagement Modalities:

4.1. Qualifications:

Candidate for adjunct faculty should satisfy the following norms:-

a) For Conventional Higher Education Courses:

- Should have the minimum qualifications as prescribed in the regulatiors
 framed by UGC / respective statutory councils from time to time. OR
- ii) A person of eminence with or without a postgraduate or Ph.D. qualifications _

b) For Skill based Courses:

- i) Should be an accomplished professional / expert in his chosen field of discipline and may not necessarily possess qualifications prescribed und er UGC regulations. OR
- ii) Should be a certified professional, for teaching and training on Nation al Occupational Standards under NSQF, by the Sector Skills Council for teaching respective trade / job role.

They are also expected to have an understanding of industry requirement s, National Occupational Standards (NOSs) and Assessment & Certification for skills.

In addition to the above, it is expected that the adjunct faculty in both the above streams would be an accomplished scholar in his area of specialization and his association wou Id add value to the academic programmes he is associated with.

4.2. Selection Criteria:

Adjunct Faculty will be appointed by the competent authority based on the recommendation of a Committee. Period of empanelment will vary from 06 months to O3 years as decided by the Institution on mutually agreed terms and conditions. It is expected that any application for adjunct faculty is first discussed at the department level. The department may forward the application with comments specifying the suitability of such candidate(s) in the department / institution level academic activities. If the department recommends a case for adjunct faculty, the same should be examined by a Committee comprising of following:

- Head of the Institution or his nominee (Chair).
- ii) Head of the concerned Department.
- Dean (Academic / Research) in case of university / senior most faculty in case of college.
- iv) One External Expert (Nominated by head of the institution).

OR
Representative of Sector Skill Council / Industry Associations (for skill based courses).

v) Registrar / Vice-Principal / Bursar or equivalent person (Convener).

If the committee recommends the case, the same would be forwarded to the compete nt authority for consideration and necessary approval. The strength of Adjunct faculty may not exceed 25 % the sanctioned strength of faculty at any time.

5. Roles and Responsibilities:

The empanelled adjunct faculty is expected to undertake following assignments:

5.1. Teaching:

- i) Conventional Higher Education Courses: Adjunct faculty will be expected to teach courses directly related to his specific expertise and professional experience or the areas of his specialization. He may also contribute to the institution's activities like counseling of students, developing new course(s) and pedagogical improvements.
- ii) Skill based Vocational Courses: The core courses pertaining to specialized skills / trades may be imparted by the adjunct faculty from industry, Sector Skill Councils approved trainers or other persons with appropriate skill proficiency. Such faculty, imparting education and training to learners in skill based courses, should have relevant NSQF qualifications, preferably certified by the relevant Sector Skill Council.
- iii) Research Courses: Adjunct faculty may also be involved in the M.Phil / Ph.D. coursework based on his professional and research proficiency adjudged by the concerned institution.
- 5.2. Training: Adjunct faculty will be expected to facilitate the setting of workshops and labs, providing hands on training in the relevant domain areas, development of soft skills, and focus on ensuring competency based learning outcomes among students.
- 5.3. Research: Adjunct faculty is expected to interact with and supervise the research students in the area of his specialization or professional proficiency. However, there should be preferably one core faculty member associated as Supervisor / Cosupervisor for smooth induction and coordination of academic procedures. The adjunct faculty may lack a traditional academic background in such case, they are not expected to contribute to the institution's research and creative mission by participating in traditional scholarly activities (i.e. they are not expected to conduct independent research and/or publish in peer-reviewed journals). Instead, he may participate by advising faculty on their research projects, serving as a liaison between the institutions and industry or government entities to identify research and/or funding opportunities or by working with faculty to identify research projects that would benefit private industry and/or government entities.
- 5.4. Services: Adjunct faculty is also expected to actively participate in service-related activities, such as sitting on departmental committees, serving as advisors to faculty

and/or undergraduate and post graduate students, helping students network, a nd active collaboration with the industry / employer providing internship and j b opportunities.

6. Costs and Honorarium:

- 6.1. Adjunct faculty will be provided travel cost, as per entitlement, from his/h er institution/place of stay and back, maximum six (06) times per academic year. No reimbursement for hiring accommodation will be permissible. However, she/he v III be provided free lodging and boarding in the Guest House.
- 6.2. She/he will be provided an honorarium of Rs. 1000/- (Rs. One Thousand Only) p→ er lecture to a maximum of Rs. 4000/- (Rs. Four Thousand Only) per day of service subject to a maximum ceiling of Rs. 80,000/- (Rs. Eighty Thousand Only) per month. The Adjunct Faculty will work at the host institution for a minimum of 02 days per visit.

7. Monitoring:

At the end of assignment, every Adjunct Faculty will submit a 'performance report' to the host university / college with a copy to the University Grants Commission. The performance report, may be considered for his continuation / renewal of next tenure.

UNIVERSITY GRANTS COMMISSION "GUIDELINES FOR GENERAL DEVELOPMENT ASSISTANCE TO CENTRAL, DEEMED AND STATE UNIVERSITIES DURING XI PLAN"(Extract)

a. Visiting Professor:

1. A Visiting Professor should be an eminent scholar in his/her field. Generally a person who has held or is holding the post of Professor or a person who has achieved distinction outside the university sector, should be considered for appointment as Visiting Professor.

2. The maximum tenure of appointment of a Visiting Professor is two years and the minimum - not less than three months. The university may appoint a person up to

the age of 70 years as a Visiting Professor.

A Professor should not be appointed as a Visiting Professor in the same university
in which he/ she holds a post immediately before or after superannuation.

4. If a superannuated person is appointed as a visiting professor, the honorarium payable should not exceed Rs.15,000/- p.m. excluding any superannuation benefits.

5. A person appointed as Visiting Professor from outside the country may be paid an

honorarium of up to Rs.20,000/-p.m.

- 6. In case a person serving in an Indian University is appointed as visiting professor, the honorarium payable should be determined on the basis of salary plus 10% of the basic pay plus dearness allowance, and other allowances, if any admissible (except conveyance allowance, if any) as per the rates of the parent university. The receiving university would also contribute towards pensionary benefits or CPF/GPF as per usual rules.
- 7. It is expected that when a serving person is appointed as Visiting Professor, the parent university would give him/her duty leave without pay.
- 8. If a person working abroad on a permanent basis is invited as a Visiting Professor, the university may meet the cost of international air travel from its own resources. Visiting Professors appointed may be paid travel expenses within India in accordance with the rules of the university.

9. Guest House accommodation is expected to be provided free of charge by the

host university, but food charges would be paid for by the Visiting Professor.

b. Visiting Fellow:

1. A Visiting Fellow should be a scholar of eminence in his/her subject. Superannuated persons up to the age of 70 years may also be considered for appointment as Visiting Fellow. The minimum tenure of a Visiting Fellow should not be less than a week and maximum - up to three months.

2. The Visiting Fellow may be paid daily allowance not exceeding Rs.600/- per day for visits up to one month. For visits beyond one month, the rate may be as in the

case of Visiting Professor.

3. Travel expenses may be met in accordance with the rules of the university.

 It is expected that the parent institution will grant academic leave with pay and usual allowance for the duration of the appointment as Visiting Fellow.

5. The host University would provide accommodation to the Visiting Fellow in the University Guest House free of charge, but food charges would be paid by the Visiting Fellow.

6. The same person may not be invited as Visiting Fellow more than once in a year in the same University, but the period of 3 months can be spilt up as desired by the University within the period of one year.

Date of Birth:

18/10/1953

Sex:

Male

Mob:

+91-8572015995, 9876671595

Email:

rcverma@gmail.com.

Education (Throughout First Class)

M.Sc. (Honours)

1974

Panjab University, Chandigarh

Ph.D. (High Energy Physics: Theory)

1978

Panjab University, Chandigarh

Academic Experience

INSTITUTION	Position	Period	Nature of Work
Punjabi University, Patiala	Professor of Physics	1995-201	3 Teaching &Research
Himachal.Pradesh. University, Shimla	Reader in Physics	1990-92	Teaching & Research
Panjab University, Chandigarh	Reader/Lecturer in Physics	1984-95	Teaching & Research
Kumaun University Nainital	Lecturer in Physics	1981-84	Teaching & Research
University of Alberta, Edmonton, (Canada)	Post Doctoral Fellow	1979-81	Research
anjab University Chandigarh	CSIR Research Fellow	1974-79	Research

Awards and Achievements

Awards

- Hari Ohm Ashram Prerit National Research Award 1994
- Short Listed for Satya Murty IPA Research Award 1987
- President, Regional Council of Indian Ass. of Physics Teachers 2004-06, 2010-12.
- Professor Emeritus (CSIR 2014)

Biographic Dictionaries:-

- Şelected for Marquis Who' Who in the World (U.S.A.) 2008, 2012.
- Selected for Asian/American Who's Who (India) -2008, 2011. Selected for Eminent Personalities of 20th Century- Int. Bio. Res. Acad-2000.
- Selected for Dictionary of International Biography (UK) 1997

Administrative Experience (Punjabi University)

	Director, Planning and Monitoring – Dean, Physical Sciences -	(2003 - 04), (2008 - 10).	R
कुलपित कार्यालय/VCO फ/Sr062 दिनांक/Dt.शु. (6 - 177)	Coordinator, FIST (DST- Govt.of India) in Physics Dept.	(2004 - 05). (2004 - 13). (2011 - 13). (2008 - 10). (2008 - 10). (2008 - 10). (2008 - 10)	DAA 1636 8.6.17

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Research Collaborations & Academic Visits Abroad

:	Simon Fraser University, Vancouver, Canada	(1979 - 81, 1986, 1990, 199 7 , 1995) (1980) (1986)
	Technion Inst. Tech., Halfa, Israel	(1986)
	LCTD Television Hara, Israel	(1989)
-	I.C.T.P., Trieste, Italy	(1995)
•	Addis Ababa University, Addis Ababa, Ethlopia.	(2003)
•	Inst. of Physics, Academia Sinica, Talpei, Talwan	(2005, 2007-08, 2010-11, 2013=, 2015)
•	National Tsing-Hua University, Hsinchu, Talwan	(2005, 2007-00, 2010-11, 2013-, 2016)
٠	CERN, Geneva, Switzerland	(2005-06) - NCTS Fellow (2008)
•	Yonsei University, Seoul, S. Korea	1200000000
•	KEK, Tsukuba, Japan	(2013) (2014)

Research Work

In my research work on the weak decays of heavy quark hadrons, I have explored missing physics by discovering new phenomena in order to bridge the existing gap between theory and experiment. Employing the constituent quark model, flavour symmetries and factorization scheme etc., I have developed models to study their decays. Discovery of these heavy flavour hadrons began a new era in the development of the field of High Energy Physics. Significance of my work lies in probing the interplay of weak and less understood strong interactions in this development. I have published over 120 research papers in reputed journals of Physics, delivered talks at over 100 International and National conferences and symposia, etc. My Investigations would be useful to decipher the relative strongths of competing weak quark-level processes, and thus act as guide to experimental searches, particularly in the high statistics experiments with future machines such as tau-charm and bottom meson factories.

Research Projects

Gluonic Effects on Hadronic Behavior,

UGC Research Project (1982-84)

Phenomenology of Heavy Quark Physics,

DST Research Project (1997-01)

Phenomenological Studies of Heavy Flavour Physics, CSIR Research Project: (2002 – 05)

Preparation of Silicon Sheet by Capillary Action Shaping Technique (CAST) for Solar Cell Applications.

 DST Research Broken

DST Research Project (2008-13)

Research Supervision:

Ph.D.: 8,

M. Phil: 8

Teaching Work

I have taught Particle Physics, Quantum Mechanics, Group Theory, Computer Simulation in Physics, Electrodynamics, General Relativity, Classical Mechanics and History & Philosophy of Physics at Post Graduate level.

Besides the regular teaching work, I have initiated and actively participated in introducing the subject of *Computer Simulation in Physics* at the Post Graduate level during my stay at H.P. University, Pa njab University and Punjabi University. For this purpose, I have developed special software and prepared 9 books and several articles on teaching the new subject in theory as well as in Laboratory Practice. I have presented these efforts at a large number of Refresher courses held at different universities.

Languages Computing Fluent in English, Hindi and Punjabi

Programming:

Mathematica, Fortran, VB, C, C++, Java

IT:

MS-Windows, MS-Office, Linux, Latex

In terests

Pursued interests in philosophy and history of sciences as hobby, and have published over 30 General artificies in this area.

Dr R.C.Verma (Profile)

Academic VISITS ABROAD

S.No. Institution	Period	Purpose
20. Academia Sinica Talpei, (Talwan)	Mar. 2015 - Ap. 201	Visiting Fellow
19. KEK (Theory Div.), Tsukuba (Japan)	Nov. 2014 - Dec. 20	Visiting Scientist
 Yonsei University Seoul, (S. Korea) 	June 2013	Visiting Scientist
17 Academia Sinica Talpel, (Talwan)	, Ap. 2013 - May 2013	Visiting Fellow
 Academia Sinica Taipel, (Talwan) 	, Nov. 2010 – Feb. 2011	Visiting Fellow
15. CERN Geneva (Switzerland)	June 2008	Visiting Scientist
14. Academia Sinica Taipei, (Taiwan	Oct Dec. 2007	7 Visiting Fellow
 National Center of Theoretical Sciences Hsinchu, (Taiwan) 	July 2005 - Jan. 2006	Visiting Scientist & participated in International Conference on Flavor Physics.
12. Academia Sinica Taipei, (Taiwan) 11. Addis Ababa Univ. Addis Ababa (Ethiopia)	Ap-June 2005 Oct. 2003	Visiting Scientist & participated in International Workshop Particle Phys.Phenomenology Short Visit
0. I.C.T.P. Trietse (Italy)	May-July. 1995	Visiting Scientist
University of Alberta Edmonton (Canada) stitute	Jan-Mar.1995	Visiting Scientist & Talk given at Lake Louise Winter
University of Alberta Edmonton (Canada) stitute	Jan-Mar.1991	Research Associate & participated in Lake Louise Winter
University of Alberta Edmonton (Canada) titute	Jan-Jun.1990	Research Associate & Talk given at Lake Louise Winter
Technion Inst. Tech. Haifa (Israel)	April 1989 Talk d	elivered in XII International Workshop on Weak Int. & Neutrinos
	1/4	The state of the sale with a recommos

Simon Fraser University Vancouver (Canada)	July 1986	participated in NATO Advanced Workshop on Super Field Theories
Lawrence Berkeley Lab. Berkeley (U.S.A.)	July 1986	participated in XXIII International High Energy Physics Conference
University of Alberta Edmonton (Canada)	May-Aug.1986	Research Associate
University of Wisconsin Madison (U.S.A.)	July 1980	participated in XX International High Energy Physics Conference
University of Alberta Edmonton (Canada)	1979-81	Post Doctoral Fellow.

Books Published: -

	 Introduction to Nuclear and Particle Physics V.K. Mittal, R.C. Verma, &, S.C. Gupta, 	Prenice Hall of India (3 rd	edition: -2013)
	C for Computer Simulation in Physics (In Press) R.C. Verma & Setul Verma,	Anamaya Pub.,N. Delhi	(2011)
•	FORTRAN for Computational Physics V.K. Mittal, R.C. Verma, & , S.C. Gupta,	Ane Books, N. Delhi	(2008)
•	FORTRAN 77 :Programming and Applications R.C. Verma, P.K. Ahluwalia & U.N. Khosla,	Allied Pub., N.Delhi	(2006)
•	Computer Aid Instructions in Physics: Quantum Mech V.K. Mittal, R.C. Verma, & S.C. Gupta,	anics Anamaya Pub., N. Delhi	(2006)
٠	Computer Simulation in Physics R.C. Verma,	Anamaya Pub., N. Delhi	(2005)
٠	Computer Programming R.C. Verma, V.K. Mittal, S.C. Gupta,	Vishal Pub., Jallandhur	(2003)
٠	Computational Physics: An Introduction R.C. Verma, P.K.Ahluwalia & K.C Sharma,	New Age Pub. N.Delhi	(1999)
•	Introduction to PCs, DOS & Computing with Applicatio U.N.Khosla, P.K.Ahluwalia & R.C.Verma,		(1998)
		Timed Tub. Pt. Duni	(1000)

Contributions in Computer Application: -

I have initiated and actively participated in introducing the subject of Computer Simulation in Physics and Computer Laboratory at the Post Graduate level at Himachal Pradesh University, Panjab University and Punjabi University, and several other universities in the region. Realising the need of producing resource material in this area, we have developed some software and written the following books and articles on teaching the new subject in theory as well as in Laboratory Practice.

Besides that, I have organised five Workshops on Computer Laboratory Training in Physics, and Emerging Technologies to provide hand-on training to college and university teachers to teach computer based courses in physics.

Physical Review D	= 42	Physics Letters B	= 3
Jl. of Physics G (Nucl.Phys.)	= 17	Progress of Theor. Physics	= 12
Zelt. Phys. C	= 8	Canadian Jl. of Physics	= 6
Pramana	= 9	Ind. Jl. Pure & App. Physics	= 10
Int. Jl. Mod. Phys.	= 3	Acta Physica Polonica	= 3
Lettere Nuovo Cimento	= 1	Euro. Phys. J. C	= 4
European Phys. Letters	= 1	Phys. Scr.	=1
Adv. in High Energy Physics	= 1	Acta Ciencia Indica	= 2
Phys. Elem. Part. At. Nuclei Letts.	= 1		E.C.
		4	

In Chronological reverse order : -

124.	Topological Diagram Analysis of Bottom Meson Decays emitting Two
	Pseudoscalar Mesons
	Maninder Kaur, Rohit Dhir, Avinash Sharma and R.C. Verma
	Physics of Elementary Particles & Atomic Nuclei, Letters, 12 (2015) 339.

- 123. Magnetic Moments of bottom baryons: Effective mass and screened charge Rohit Dhir, C.S. Kim, & R.C. Verma Phys. Rev. D 88 (2013) 094002
- 122. Effects of Flavor Dependence on Weak Decays of J/psi and \Upsilon.

 Rohit Dhir, R.C. Verma, & AC Sharma

 Adv. High Energy Physics 2013 (2013) 706 543
- Decay constants and form factors of s-wave and p-wave mesons in the covariant light-front quark model (hep-ph 1103.2973)
 R.C. Verma
 J. Phys. G. 39 (2012) 025005
- Decays of bottom mesons emitting tensor mesons in the final state using the Isgur-Scora-Grinstein-Wise II model N.Sharma, R. Dhir and R.C. Verma Phys. Rev. D 83 (2011) 014007
- 119. Preliminary Estimate of Branching Ratios of Weak Hadronic Decays of Bottom Baryons emitting Charmless Scalar Mesons

 Arvind Sharma, R. Dhir and R.C. Verma Euro, Phys. J. C. 71 (2011)1530
- 118. Exclusive Semlleptonic Decays of Bc Meson.

 Robit Dhir and R.C. Verma Phys. Scr. 82 (2010) 065101
- 117. Predictions of Bc meson emitting Pseudoscalar and heavy scalar mesons using ISGW –II model
 Neelesh Sharma & R.C. Verma

 Phys. Rev. D 82 (2010) 094014
- 116. Branching Ratios of Bc mesons decay to Pseudoscalar & Axial mesons.

 Neelesh Sharma and R.C. Verma

 J. Phys. G (2010) 37 (2010) 075013
- 115. Charm Changing Weak Hadronic Decays of Triplet (C=1) baryons emitting Axial-Vector Mesons incl. factorizable and Pole Contributions.

 Arvind Sharma, and R.C. Verma Phys. Rev. D 80 (2009) 094001
- 114. Magnetic Moments of (3/2+) heavy baryons using effective mass and screened charge scheme

 Rohit Dhir and R.C. Verma

 Eur. Phys. J. A. 42 (2009)243
- 113. Axial Vector Meson emitting Weak Nonleptonic Decays of b-Baryons
 Arvind Sharma and R.C. Verma Phys. Rev. D 79 (2009) 094023
- Scalar Meson emitting Weak Hadronic Decays of ½+ Charm Baryons involving Factorization and pole contributions
 Arvind Sharma and R.C. Verma
 J. Phys. G 36 (2009) 075005

- 111. First Estimate of Axial-Vector Meson emitting Weak Nonleptonic Decays of Charm Baryons in the Factorization Scheme Arvind Sharma and R.C. Verma Phys. Rev. D 79(2009) 037506
- Bc Meson Form-factors and Bc ->PV Decays Involving Flavor Depende ance of Transverse Quark Momentum.

 Rohlt Dhir, and R.C. Verma, Phys. Rev. D 79, 034004 (2009)
- Flavor dependence of B/c+ meson form factors and B/c ---> P P decays .
 R.Dhir, N. Sharma and R.C. Verma J.Phys.G 35 (2008) 085002
- Flavour Structure of Low-Energy Hadron Pair Photoproduction K. Odagiri and R.C. Verma Euro. J. Phys. C 52 (2007) 159
- 107. Weak Hadronic Decays of Charm Mesons emitting Pseudoscalar and Axial mesons
 Neelesh Sharma and R.C. Verma
 Phys. Rev. 75 (2007) 014009
- 106. Exclusive Weak Hadronic Decays of Charm Baryons in Flavour SU(3)
 Reanalyzed
 Arvind Sharma and R.C. Verma Ind.J.Pure & App.Phys. 45 (2007) 189
- Nonfactorizable Contributions to Hadronic Decays of D mesons R. Dhir and R.C. Verma J. Phys G 34 (2007) 637
- 104. Magnetic Moments of Charmed Baryons using effective mass and screened charge of quarks

 R.Dhir and R.C. Verma

 J. Phys G 31 (2005) 141
- 103. Weak Nonleptonic Decays of Charm Baryons emitting Scalar Mesons
 Arvind Sharma and R.C. Verma Phys. Rev. 71(2005) 074024-1
- 102. Reanalysis of baryon magnetic moments using the effective mass and screened charge of quarks

 B.S. Bains and R.C. Verma

 Phys. Rev. D 66 (2002) 11408
- 101. Quark Diagram Analysis of Weak Hadronic Decays of Bc Meson
 R.C. Verma & A.C.Sharma
 Phys. Rev. D 65 (2002) 114007
- 100. Quark Diagram Analysis of B →VV.Weak Docays & Smoaring Effoots

 R.O. Wennu & A.C.Sharma Phys. Rev. D 04 (2001) 114018
- 99. Strong BBP couplings for the Charmed Baryons
 R.C. Verma and M.P. Khanna Ind.J.Pure & App.Phys. 39 (2001) 615
- 98. Charm Hadronic Weak Decays and Non-Factorizable Contributions
 R.C. Verma Ind.J.Pure & App.Phys. 38 (2000) 395
- Rare Decays of ψ and Y K.K. Sharma and R.C. Verma.

Int. Jl. Mod. Phys. A 14 (1999) 937

- 96. A QQ-Potential extracted from Quarkonium Spectroscopic Data'
 K.K.Sharma, R.C. Verma & A.C.Sharma, Ind.J.Pure & App.Phys.37(1999) 75
- 95. Study of Weak Mesonic Decays of Λ_c & Ξ_c baryons on basis of HQET Results K.K. Sharma & R.C. Verma, Eur. Phys. J. C 7 (1999) 217
- 94. Bottom Baryons Decays in Pole Model, S.Sinha, M.P. Khanna & R.C. Verma, Pl

Phys. Rev. D (1998) 4483

- 93. An Incompatibilty in Calculation of Quarkonium Masses & Leptonic Widths, A.Sharma, R.C. Verma & M.P.Khanna, Ind. J Pure & App. Phys. 36 (1998) 259
- Nonfactoizable Contributions to Weak D → PP Decays
 K.K.Sharma, A.C. Katoch & R.C. Verma,
 Zelts f. Phys. C 76 (1997) 311

- 91. SU(3)-flavor Analysis of Two-body Weak Decays of Charmed Baryons K.K. Sharma & R.C. Verma, Phys. Rev. D 55 (1997) 7067
- 90. Isospin Analysis of nonfactorizable contri. to hadronic decays of charm mesons

 A.C.Kaloch, K.K.Sharma & R.C. Verma,

 J. Phys. G 23 (1997) 807
- 89. Nonfactoizable Contributions to Weak D → PV Decays (ICTP/95/166)

 K.K.Sharma, A.C. Kaloch & H.C. Verma, Zelts f. Phys. C 75 (1997) 253
- 88. CKM Favored B-meson Decays to Pseudoscalar & Axial mesons
 A.C. Katoch & R.C. Verma, J. Phys. G 22 (1996) 1765
- 87. Weak Decays of B-mesons to P(0") & S(0") in Final state

 A.C. Kaloch & R.C. Verma, Int. J. Mod. Phys. A 11 (1996) 129
- Nonfactorization in Hadronic Two-body Cabibbo-favored decays of D⁰ & D⁺ ,
 A.N.Kamal, A.B.Santra, T.Uppal & R. C. Verma, Phys. Rev. D 53 (1996) 2506
- Cabibbo Favored Hadronic Decays of Charmed Baryons in Flavor SU(3)
 R.C. Verma & M.P. Khanna, Phys. Rev. D 53 (1996) 3723
- 84. SU(3)Flavor Analysis of Nonfactorizable Contributions to D → PP Decays R.C. Verma, Phys. Letters B 365 (1996) 377
- 83. Searching Systematics for Nonfactorizable-Contributions-Hadronic decays of D⁰ & D⁺
 R.C. Verma, Zeits 1. Phys. C 69 (1996) 253
- 82. Weak Decays of B- & Bo Mesons to 0° & 2° Mesons involving b \rightarrow c Transition A.C. Katoch & R.C. Verma, Phys. Rev. D 52 (1995) 1717
- Cabibbo-Favored Decays of Mesons to Pseudoscalar & Axial Mesons A.C. Katoch & R.C. Verma,
 J. of Phys. G 21 (1995) 525.
- Analysis of Cabibbo-favor Decays of Charmed Mesons with η or η' in final state R.C. Verma, A.N. Kamal & M.P. Khanna, Zelts Phys. C 65 (1995) 255
- 79. Comparison of Δ I = 1/2 & Δ I = 3/2 Contributions to Ω & Kaon Weak Decays T. Uppal, R.C. Verma, M.P. Khanna & M. D. Scadron J. of Phys. G 21 (1995) 621.
- 78. D Decays into Pseudoscalar & Scalar Mesons
 A.C. Katoch & R.C. Verma, Zelts 1. Phys. C 62 (1994) 173
- //. Constituent Quark Model Analysis of Weak Meson Decays of Charm Baryons T. Uppal, R.C. Verma & M.P. Khanna, Phys. Rev. D 49 (1994) 3417
- 76. Weak Decays of D Mesons to Pseudoscalar-Tensor Final States
 A.C. Katoch & R.C. Verma, Phys. Rev. D 49 (1994) 1045.
- 75. Vector-Vector Weak Decays of D-Mesons in SU(4) Framework
 A.C.Katoch & R.C.Verma, Ind. J Pure & App. Phys. 31(1993) 216.
- 74. Weak Electromagnetic Decays of Charm Baryons
 T. Uppal & R.C. Verma Phys. Rev. D,47 (1993) 2858.
- 73. Branching Ratios for D→VV incl. Smearing Effects due to p-Meson Width

 T. Uppal & R.C. Verma, Zelts f. Phys. C 56(1992) 273.
- Smearing Effects of ρ Meson Width on D → P V Decays
 T. Uppal & R.C. Verma, Phys. Rev. D 46 (1992) 2982.
- 71. Two-Body Meson decays of B-Mesons in SU(4)
 S.M. Sheikholeslami & R.C. Verma, Int. Jl. Mod. Phys. 16 (1992) 3691.
- 70. Effects of a₁ width on D → K a₁ Decays,

 R.C. Verma & A.N. Kamal,

 Phys. Rev. D 45 (1991) 982.
- Weak Radiative Decays of Hyperons with in SU(6) Broken Q.Diquark Model
 T. Uppal & R.C. Verma, Zelts f. Phys. 52 (1991) 307

- Nonstrange Charmed Baryon Masses in SU(3) Skyrme Model, S.M. Sheikholeslami & R.C. Verma, Ind. J Pure & App. Phys. 30(1992)41
- 67. D,Ds⁺ →VV Decays in two Models:SU(3) Model & Factorization Model with F SI

 A.N. Kamal, R.C. Verma & N. Slinha Phys. Rev.D 43 (1991) 843.
- 66. Cabibbo-Favored,-Suppressed & -Doubly Suppressed D→PP & D→VP in SU(3) with FSI R.C. Verma & A.N. Kamal, Phys. Rev. D 43 (1991) 829.
- 65. Cabibbo-Enhanced Decays of Charm Baryon in SU(4) Semidynamical Sc ■heme S.M. Shelkholeslami, M.P.Khanna & R.C. Verma, Phys. Rev. D 43 (1991) 170.
- Hadronic Weak Decays of ψ R.C. Verma, A.N.Kamal & A.Czarnecki,

Phys.Letters B 252(1990)690

- 63. Sum Rules for the Pseudoscalar BBP Couplings
 M.P. Khanna & R.C. Verma, Zelts f. Phys. C 47 (1990) 275.
- 62. A Reanalysis of Weak Radiative Decays of Hyperons, R.C. Verma & A. Sharma, Phys. Rev. D 36 (1988) 1443.
- Photon Cloud Effects on Iso-Mass Differences of Charm & Uncharm Baryons, R.C. Verma & S. Srivastava, Phys. Rev. D 38 (1988) 1623.
- 60. An Analysis of Charm → PP Based on SU(3) Symmetry & FSI

 A.N. Kamal & R.C. Verma, Phys. Rev. D 35 (1987) 3515.
- 59. Quark Effective Mass & Baryon Magnetic Moments, R.C. Verma & M.P. Khanna, Prog. Theor. Phys. 77 (1987) 1019.
- 58. Electromagnetic Mass Difference of 1/2⁺ Baryons in Quark & Skyrme Mod els, S. Srivastava & R.C. Verma, Phys. Rev. D 35 (1987) 965.
- 57. Shielding of Quark Charge & Baryon Magnetic Moments,

 R.C. Verma & M.P. Khanna,

 Phys. Letters. 183 B (1987) 207.
- Baryon Masses & Magnetic Moments in SU(6) Broken Diquark Model P. Kaur & R.C. Verma, Ind. J. Pure & Appl. Phys. 25 (1987)6
- 55. Counting Strange Quarks for the Skyrme Masses,

 R.C. Verma & M.P. Khanna,

 Euro. Phys. Letts. 2 (1980) 001.
- 54. Constituent Quark Model Picture for Nonleptonic Hyperon Decays M.P.Khanna, R.C. Verma & M.D. Scadron, J.Phys. G 12 (1986) 1323.
- 53. A Note on the Baryon Masses in Skyrme Model,
 R.C. Verma & M.P. Khanna,
 Phys. Rev. D 34 (1986) 1638.
- 52. W-Exchange Dominance & the $\Sigma^+ \to p + \gamma$ Asymmetry, R.C. Verma & A. Sharma, J. Phys. G 12 (1986) 1329.
- 51. Tachyons in Gravitational Field, H.C.Chandola, B.S.Rajput, R.Sagar & R.C.Verma, Ind. J. Pure & App. Phys. 24(1986)51.
- 50. On the Relation Between Coupling & Mass,

 R.C. Verma,

 Acta Phys. Pol. B 16 (1985) 27.
- 49. Elementary Particle Interactions in Astrophysics,

 R.C. Verma,

 Acta Ciencia Indica 10 (1984) 319.
- 48. Meson Cloud Effects on Baryon Moments,

 R. Sagar & R.C. Verma,

 Acta Phys. Pol. B 15 (1984) 903.
- 47. Strong Coupling & Hadron Masses, R. Sagar & R.C. Verma,

Can. J. Phys. 62 (1984) 226.

- Anomalous Magnetic Moments for Uncharmed & Charmed Baryons,
 R. Sagar & R.C. Verma,
 Can. J. Phys. 62 (1984) 123.
- 45. Magnetic Interactions of L=0 Hadrons, R.Sagar & R.C.Verma,

Ind.J.Pure & Appl. Phys. 22 (1984) 129.

- Baryon Magnetic Moments in Quark-Diquark Model, M.P. Khanna & R.C. Verma, Pramana 21 (1983) 241.
- 43. Radiative Decays & Mag. Moments of Hadrons in SU(3) u,d,c Quark Sector,
 R. Sagar & R.C. Verma,
 Acta Ciencia Indica 9 (1983) 45.
- Why the Proton-Neutron moment Ratio is -1.46,
 R.C. Verma,
 J. Phys. G 9 (1983) L253.
- 41. Space-Time Reciprocity in 6-Dimensional Super-Luminal Transformations, R.C. Verma, H.C. Chandola & B.S. Rajput, Acta Ciencia Indica 9 (1983) 27.
- 40. Two-Body Effects on Baryon Mag. Moments & Radiative Decays of Mesons, R.C. Verma, Pramana 19 (1982) 255.
- Radiative Weak Decays of Baryons, A.N. Kamal & R.C. Verma,

Phys. Rev. D 26 (1982) 190.

- 38. Parity Violating Weak Baryon Decays in Support of SU(6) Broken Diquark Model, R.C. Verma, Prog. Theor. Phys. 67 (1982) 706.
- Gluon Exchange Effects on Baryon Magnetic Moments,
 R.C. Verma & M.P. Khanna,
 Lett. Nuo. Clm. 32 (1981) 429.
- 36. Parity Violating Hadronic Decays of 1/2⁺ Baryons in Current Algebra Scheme P.K. Chatley & R.C. Verma, Acta. Phys. Pol. B 12 (1980) 881.
- Weak Decays of 1/2+ & 3/2+ Baryons in SU(4) Dynamical Scheme,
 S.Kanwar, R.C. Verma & M.P. Khanna,
 Phys. Rev. D 24 (1981) 117.
- 34. Magnetic Moments of JP = 1/2+ Baryons in Broken SU(8),
 R.C. Verma, Can. J. Phys. 59 (1981) 506.
- 33. Weak Gamma Decays & the Nonleptonic Weak Hamiltonian, P.N. Pandit, R.O. Verma & M.P.Khanna, Prog. Theo. Phys. 64(1980)2158.
- 32. Right-Handeded Current & Two Body Hadronic Charm Decays,
 A.N. Kamal & R.C. Verma, Can. J. Phys. 58 (1980) 1734.
- 31. Strong Couplings in Broken SU(4), P.N.Pandit, M.P.Khanna & R.C.Verma,

Can.J.Phys. 58 (1980) 1070.

- Magnetic Moments of Baryons in Broken Spin-Unitary-Spin Symmetry R.C. Verma, Phys. Rev. D 22 (1980) 1156.
- 29. Symmetry Breaking Effects on Radiative Decays of Mesons, R.C. Verma, Phys. Rev. D 22 (1980) 698.
- 28. Second Order Breaking Effects on Hadron Masses, C.P.Singh, R.C.Verma & M.P.Khanna, Phys. Rev. D 21 (1980) 1388.
- 27. Charm Changing Decays of 1/2+ & 3/2+ Baryons in SU(3) Dynamical Scheme, K. Sharma, R.C. Verma & M.P.Khanna, Phys. Rev. D 21 (1980) 1891.
- 26. Parity Violating Decays of Charmed Baryons in a Quark Model, S.Kanwar, R.C. Verma & M.P. Khanna, Phys. Rev. D 21 (1980) 1887.
- Radiative Decays of Vector Mesons in Broken SU(3),
 J.K.Bajaj, K.Sharma, R.C. Verma & M.P.Khanna,
 Prog. Theor. Phys. 63(1980) 1341
- SU(4) Symmetry Structure of Nonleptonic Weak Interaction,
 R.C. Verma & M.P. Khanna,
 Phys. Rev. D 21 (1980) 812.

- 23. Vector Mesonic Decays of 1/2+ Baryons in Charm Changing Model, S.Kanwar, R.C. Verma & M.P. Khanna, Can. J. Phys. 58 (1980) 105.
- 22. Charm Changing Radiative Weak Decays in AFS Model,
 P.N. Pandit, R.C. Verma & M.P. Khanna, Prog. Theor. Phys. 62 (1979) 1713.
- Baryon Magnelic Moments & Lipkin Quark Mass Relation,
 S.Kanwar, R.C. Verma & M.P. Khanna,
 Prog. Theor. Phys. 62 (1979) 1419.
- 20. Radiative Weak Decays of Uncharmed Hyperons,

 K. Sharma, R.C. Verma & M.P. Khanna,

 J. Phys. G 5 (1979) 1519.
- 19. Magnetic Moments of Baryons in Broken SU(4), C.P. Singh, R.C. Verma & M.P. Khanna, Pramana 13 (1979) 261
- Weak Hadronic Decays of Uncharm Baryons in SU(3) Dynamical Considerations, B.C. Verma & M.P. Khanna,
 J. Phys. G 8 (1979) 10
- 17. Strong Coupling Constants in Broken SU(3),
 S.Kanwar, R.C. Verma & M.P. Khanna, Prog. Theor. Phys. 62(1979)1152.
- Note on the Nonleptonic Hyperon Decays in SU(3), R.C. Verma, M.P. Khanna & M.M. Gupta, Phys. Rev.D 20 (1979) 810.
- 15. PV & PC Decays (1/2⁺ →3/2⁺ + 0⁻/1⁻) of Charm Baryons in AFS Model S.Kanwar, R.C. Verma & M.P.Khanna, Prog. Theor. Phys. 62(1979)186.
- Weak Nonleptonic Decays of 3/2⁺ Isobars in SU(3),
 K. Sharma & R.C. Verma, Pramana 12 (1979) 57.
- 13. Weak Hadronic & Radiative Decays of Nonstrange Charm Baryons in SU(3) udc S.Kanwar, R.C. Verma & M.P.Khanna, J. Phys. G 5 (1979) 219.
- 12. Parity Violating Hadronic Decays of Charmed Baryons in SU(8) with R.H.C., S.Kanwar, P.N. Pandit, R.C. Verma & M.P.Khanna, Prog. Theor. Phys. 61(1979) 1447.
- 27 Contribution to Weak Electromagnetic Decays,
 R.C. Verma & M.P. Khanna,
 Phys. Rev. D 18 (1978) 4349.
- Charm Changing Weak Decays 1/2⁺ →3/2⁺ + 0⁻ in SU(4) & SU(8)_w R.C. Vorme & M.P. Khanna, Pramana 11 (1978) 333.
- Baryon Masses in Broken SU(8), R.C. Verma & M.P. Khanna,

Phys. Rev. D 18 (1978) 956.

- Higher Order Effects on Radiative Decays of Mesons, R.C. Verma, J.K.Bajaj & M.P. Khanna, Prog. Theor. Phys. 60 (1978) 817.
- Higher Order Mass Formulas in SU(4), R.C. Vorma & M.P. Khanna,

Phys. Rev. D 18 (1978) 828

- Adjoint Rep. Admixture to Weak Nonleptonic Decays in SU(4) & SU(8), R.C. Verma & M.P. Khanna, Pramana 9 (1977) 643.
- 5. SU(8) Mass Relations Among 1/2+ & 3/2+ Baryons,

 R.C. Verma & M.P. Khanna,

 Pramana 8 (1977) 524.
- Magnetic Moments of Baryons in Higher Symmetry Schemes including Charm R.C. Verma & M.P. Khanna, Pramana 8 (1977) 462.
- Weak Radiative Decays of Hyperons & Charmed Baryons in SU(4) & SU(8) R.C. Verma, J.K.Bajaj & M.P. Khanna, Prog. Theor. Phys. 58 (1977) 294.
- Parity Violating Nonleptonic Decays of Hyperons & Charm Baryons in SU(8), R.C. Verma & M.P. Khanna, Pramana 8 (1977) 56.
- Nonleptonic Decays of Hyperons & Charm Baryons in SU(8), R.C. Verma & M.P. Khanna, Prog. Theor. Phys. 57 (1977) 538.

Inter-disciplinary Publications: -

 Theoretical simulation of the thermal profile in the Capillary Action Shaping Technique and its verification through the growth of Silicon shoets Leena Garg, S. M. D. Rao, and R. C. Verma,

Materials Science Research India 12 (2015) 36.

On the development of capillary action shaping technique for growing shaped crystals,

Leena Garg, R. C. Verma, S. M. D. Rao,

Bull. Ind. Vac. Society 16 (2013) 1

- Mathematical Model to Predict tissue Response of Parthenin-Allelochemical, R.K. Kohli, D. Rani & R.C. Verma

Biologia Plantarum 35 (1993) 567

 Influence of Eucalypt Shelterbelt on Winter Season Agroeco-systems, R.K.Kohli, D.Singh & R.C.Verma

Agriculture, Ecosystems & Environment 33 (1990) 23

Talks Published : -

- Science Education: Crisis and Solutions, R.C. Verma Proc. National Seminar on Science as Living Reality, (Feb. 2011) H.G. College, Jagadhri, page 24.
- Ultimate Structure of Matter,
 Proc. National Conf. on Advances in Condensed Matter Physics, (Feb. 2005)
 Thapar University (TIET), Patiala, page 127.
- A Modern View on Radiation, Matter and Forces, R.C. Verma Proc. 7th Symposium on Radiation Physics, (March 2001) Punjabi University, Patiala, page 14.
- Some Ancient Indian Thoughts on Evolution of Universe, R.C. Verma 20th Astronomy Socity of India Meeting & National Symposium, (Nov. 2000) Gorakhpur Univ., Gorakhpur, Souvenir, page 46-59.
- Charm Hadron Weak Decays & Nonfactorizable Contributions (Review), R.C. Verma, Proc. National Symposium on SUSY Breaking, (1999), Kumaun Univ. Nainital, Ind. Jl. of Pure & App Phys. 38 (2000) 395

- Brahmanda and Dik-Kala: Prachina and Adhunika Dharna, R.C. Verma Hindi Tr. Of Extension Lecture given at Rani Durgawatoi Univ. Jabalpur Ed. By Sureshwar Sharma, Vigyan Bharti Pradeepika 4 (2000) 20.
- 12. Evolution of Universe and Concepts of Matter: Some Ancient Indian Views, Proc. Mini Workshop on Rel. Heavy Ion Collisons (1997) R.C. Verma ed. V. Kumar, Univ. Rajasthan, Jaipur, (1998) 239\
 also appeared in Vigyan Bharti Pradeepika 4 (2000) 32., and in Vedic Path LVIII, (2000) 33.
- Heavy Flavor Weak Decays (Review); R.C. Verma, Proc. XII DAE Symposium on High Energy Physics (1997), Gauhati Univ. Guwahati, Ind. Jl. of Phys. 72 A (1998) 579
- Upanishadis Thoughts on Matter, Vigyan Bharti Sammelan (1998) Kurukshetra Univ., Kurukshetra

R.C. Verma

- Efficacy of Computer Aided Learning in Physics, R.C. Verma, Proc. International Conference on Educational Computing ed. R. Radhakrishnan, TTTI, Chandigarh (1996) 313
- A Puzzle in D, Ds → η/ η' + P/V Decays, Proc. of Lake Louise Winter Institute (Canada) ed. A. Astbury et al.
 R.C. Verma, Proc. of Lake Louise Winter Institute (Canada) World Sci. Pub., Singapore (1996) 523.
- Constituent Quark Model Picture for Radiative Weak Decays of Hyperons, Proc. of Lake Louise Winter Institute (Canada), R.C. Verma, ed. A. Astbury et al. World Scl. Pub., Singapore (1991) 390.
- A Quark Model Study of Weak Decays of Baryons, R.C. Verma, Proc. XII International Workshop on Weak Interactions & Neutrinos (Israel) ed. P.Singer & G. Eilam, Nucl. Phys. C 13 (1990) 452.
- Monopole Physics and Skyrmion Masses, R.C. Verma, & M.P. Khanna Proc. National Symposium on "Monopoles, Dyons & Tachons" (Nainital) ed. B.S. Rajput ,Pragati Prakashan (1989)
- Group Theoretical Aspects of Schrodinger Equation, R.C. Verma, Proc. Schrodinger Cent. Surveys in Physics, ed. V. Singh & S. Lal, World Sci. Pub. Singapore (1988) 294.
- Indian Contributions to Development of Calculus, R.C. Verma Proc. National Seminar History & Philosophy of Science, ed. H.S. Virk, G.N.D. University, Amritsar (1988)5
- Extension of Eddington Ideas to Quark-Lepton Level, R.C. Verma, Proc. Eddington Cent. International Symposium, ed. V.Sabbata & T.M. Karade World Sci. Pub., Singapore (1985) 253.
- Elementary Particle Interactions in Astrophysics (Review), R.C. Verma, delivered at Sym. On High Energy Astrophysics, (1982) Gorakhpur Univ. Gorakhpur Acta Ciencia Indica 10 (1984) 139.

Participation in International Conferences/Workshops etc. held abroad: -

1.	KEK FI	avor Fact	ory Worl	kshop,

KEK, Tsukuba, Japan (2014)

- NRF Workshop on Particle Physics and Cosmology, Yonsei University, Seoul, S. Korea (2013)
- 26th Spring School on Particles and Fields, National Taiwan University, Taipei, Taiwan (2013)
- Workshop on Higgs Physics and Beyond, Institute of Physics, Academia Sinica, Taipei, Taiwan (2013)
- LHC Symp. & PSROC Ann. Meeting, National Taiwan University, Taipei, Taiwan (2011)
- International Workshop on Particle Physics phenomenology, AS, Lu-Dong, Taiwan (2005)
- International Conference on Flavour Physics, National Central University, Chung-li, Taiwan (2005)
- Lake Louise Winter Institue on `Quarks and Colliders", University of Alberta, Lake Louise, Canada (1995)
- Lake Louise Winter Institute on `Factory Era', University of Alberta, Lake Louise, Canada (1991)
- 10. Lake Louise Winter Institute on 'Standard Model & Beyond', University of Alberta, Lake Louise, Canada (1990)
- 11.XII International Workshop on Weak Interactions & Neutrinos, Tochnion Institute of Technology, Ginosar, Israel (1989)
- 12.XXIII International Conference on High Energy Physics, .

 Berkeley University, Berkeley, U.S.A. (1986)
- 13. Nato Advanced Research Workshop on Super Field Theories, Simon Fraser University, Vancouver, Canada (1986)
- 14. Canadian Association Physicists Congress'86, University of Alberta, Edmonton, Canada (1986)
- 15.XX International Conference on High Energy Physics, University of Wisconsin, Madison, U.S.A. (1980)

Participation in National/International Conferences/Symposia/Refresher Course etc. held in India: -

a) Invited Speaker/ Resource Person

- 1 6. Guest Lecture at National Conference, on Higher Education, GMN College, Ambala Cantt. (2015)
- 17. Guest Lecture at Science Conclave, Maharishi Dayanand Univ. Rohtak (2014).
- 1 8. Refresher Course in Computer Sc. & Information Technology, ASC, Punjabi Univ. Patiala (2013)

- 19. Guest Colloquium Program at Central University of Himachal Pradesh, Dharamshala (2013)
- 20. National Workshop on Instrumentation, Devi Ahilya University, Indore (2013)
- National Seminar on Recent Advances in Basic Sciences in Era of Modern Technology, Markanda National College, Shahbad (2013)
- 22. International Conference Emerging Trends in Physics for Environmental Management, Punjabi University, Patiala (2012)
- 23. Refresher Course in Physics (RC-249), Himachal Pradesh University, Shimla (2012)
- 24. 22nd Refresher Course in Computer Applications and IT for College and University Teachers, ASC, Punjabi University, Patiala (2012)
- 25. North Zone Meeting of IAPT, GGS College, Chandigarh (2012)
- 26. 7th Orientation Course, ASC, Punjabi University, Patiala (2011)
- 27. Refresher Course in Physics (RC-239), Himachal Pradesh University, Shimla (2011)
- 28. National Seminar on Physics Education Research, St. Bede College, Shimla (2011)
- National Workshop on Mathematica: An Integrated Environment for Computer Physics and Mathematics, Chilkara University, Baddi (2011)
- 30. National Seminar on Yoga and Aura, Brahmrishi Yoga Training College, Chandigarh (2011)
- Zonal Convention cum Workshop on Education, GN Public School, Ludhiana (2011)
- 32. National Seminar on Science as Living Reality, H.G. College, Jagadhari (2011)
- 33. 5th Orientation Course, ASC, Punjabi University, Patiala (2010)
- 34. Refresher Course in Physics, Panjab University, Chandigarh (2010)
- 35. 4th Orientation Course, ASC, Punjabl University, Patiala (2010)
- 36. Refresher Course in Mathematics & Statistics, ASC, Punjabi University, Patiala (2010)
- Workshop on Symbolic Computation & Mathematica in Continuum Mechanics and Algebra,
 H.P. University, Shimla, (2010)
- 38. Refresher Course in Physics, Himachal Pradesh University, Shimla (2009)
- 39. 3rd Orlentation Course, Punjabi University, Patiala (2009)
- 40. Seminar on Current Trends in Physics, Panjab University, Chandigarh (2009)
- 41. Workshop on Computer Lab. Training in Physics, Punjabi Univ., Patiala (2008)
- 42. Aryabhatta Institute of Observational Sciences (ARIES), Nainital (2008)
- 43. Summer School in Basic Sciences, Kurukshetra University, Kurukshetra (2008)
- 44. Refresher Course in Physics, Himachal Pradesh University, Shimla (2008)
- 45. National Workshop on Emerging Technologies, Punjabi Univ., Patiala (2008)
- Refresher Course in Mathematics, Physics & Computer Science, Dr. Babasaheb Ambedkar Marathawada University, Aurangabad (2008)
- 47. Recent Advances in Innovative Materials, NIT, Hamirpur (2008)
- 48. 11th Punjab Science Congress (2008), Thapar University, Patiala, (Feb 2008)
- 49. Workshop on Computer Lab. Training in Physics, Punjabi Univ. Patiala (2006)
- 50. Refresher Course In Computational Physics, Himachal P. Univ., Shimla (2006)
- 51. National Conference on Advances in Condensed Matter Physics, Thapar University, Patiala (2005)
- 52. Refresher Course in Physics, University of Rajasthan, Jaipur (2005)
- 53. 8th Punjab Science Congress, Punjabi University, Patiala (2005)

- 54. Refresher Course on Advances in Physics, Panjab Univ., Chandigarh (2005)
- 55. National Symposium on Radiation Measurements & Applications, Punjabi Univ. Patiala (2004)
- 56. Workshop on Computer Lab. Training in Physics, Punjabi Univ. Patiala (2004)
- 57. Refresher Course in Electronics, Kurukshetra Univ. Kurukshetra (2004)
- 58. Frontiers of Physics Refresher Course, G.N.D. Univ. Amritsar (Jan 2004)
- 59. Refresher Course in Physics, G.N.D. Univ. Amritsar (2003)
- 60. Regional Workshop on Facilities & Research Program at NSC, Punjabi University, Patiala (2002)
- 61. Seminar on Science in Ancient India, Vigyan Bharti, Kurukshetra (2002)
- 62. Refresher Course in Physics, Himachal Pradesh University, Shimla (2002)
- 63. XV DAE Symposium on High Energy Physics, University of Jammu, Jammu (2002)
- Recent Trends in Theoretical and Experimental Physics-Refresher Course, Maharishi Dayanand University, Rohtak (2002)
- 65. Seminar on Computational Techniques in Phys., Panjab Univ.Chandigarh(2002)
- 66. Recent Advances in Physics Refresher Course, G.N.D. Univ. Amritsar (2002)
- National Symposium on Ancient Indian Science, Engineering & Technology interfaced with Modern Knowledge & Science, Vigyan Bharti, N.Delhi (2001)
- 68. 16th MP Yound Scientist Congress, Devi Ahilyabai University, Indore (2001)
- 69. Refresher Course in Physics, B. Ambedkar M. University, Aurangabad (2001)
- 70. Seventh Symposium on Radiation Physics. Punjabi Univ. Patiala (2001)
- 71. 20th Astronomy Society of India Meeting & National Symposium Gorakhpur Univ., Gorakhpur (2000)
- 72. Refresher Course in Physics, Kurukshetra University, Kurukshetra (2000)
- 73. Refresher Course on Concepts in Physics, Aligarh M. Univ., Aligarh (2000)
- 74. XV Annual IAPT Convention, Panjab University, Chandigarh (2000)
- 75. Atomic, Nuclear & Solid State Phys. Refresher Course, Punjabl Univ. Patiala (2000)
- 76. Summer School on Working of Mind, Institute of Advanced Study, Shimla (2000)
- 77. Refresher Course on using Computers in Phys., Aligarh M. Univ., Aligarh (2000)
- Workshop on Use of Computer Applications in Education, DVS-Center of Applied Science & Technology, Kanpur (2000)
- 79. DSA & COSIST program, Kumaon University, Nainital (1999)
- 80. National Seminar on Research Methodology, Kumaon University, Nainital (1999)
- 81. XIV Annual IAPT Convention, Citi Montessari, Lucknow (1999)
- 82. UPSO-IUCAA Workshop, UP State Observatory, Nainital (1999)
- 83. Refresher Course on Physics, Punjabi University, Patiala (1999)
- 84. 6th Symposium on Radiation Physics, Punjahi University, Patiala (1999)
- 85. UGC-National Symposium on SUSY Breaking, Kumaon Univ., Nainital (1999)
- 86. Contemporary Physics- Refresher Course, Punjabi University, Patiala (1999)
- 87. Refrosher Course in Physics (Electronics), R.D. University, Jabalpur (1999)
- 8B. National Conference on Science & Sanskrit, Jiwaji Univ. Gwalior (1999)
- 89. XIII DAE Symposium on High Energy Physics, Panjab Univ., Chandigarh (1998)
- 90. DSA & COSIST program, Kumaon University, Nainital (1998)

- 91. Refresher Course on 'Electronics', Rani Durgawati University, Jabalpur (1998)
- 92. Workshop on B & Neutrino Physics, Mehta Research Institute, Kanpur (1998)
- 93. Workshop on Relativistic Heavy Ion Collisions, Univ. of Rajasthan, Jaipur (1997)
- 94. First Punjab Science Congress, Punjabi University, Patiala (1997)
- 95. 84th Session of Indian Science Congress, University of Delhi, Delhi (1997)
- 96. XII DAE Symposium on High Energy Physics, Gauhati University, Gauhati (1996)
- 97. SERC(DST) Winter School in High Energy Phys.Panjab Univ.,Chandigarh (1996)
- 98. International Conference on Educational Computing, TTTI, Chandigarh (1996)
- 99. Foundations of Modern Physics Refresher Course, Panjab University, Chandigarh(1995)
- UGC National Symp. on Live Issues in Physics Education, TIET, Patiala (1995)
- Refresher Course on 'Foundations of Physics', Kurukshetra Univ. (1994)
- International Workshop on Use of Computers in Teaching Physics, Rani Durgawati University, Jabalpur (1992)
- Computational Physics Refresher Course, Himachal P. Univ. Shimla (1992)

b) Research Papers presented

- 104. National Seminar on History & Philosophy of Phys., Kumaon Univ., Nainital (1991)
- 105. High Energy Physics Symposium, Srinagar Univ., Srinagar (1988)
- 106. Symposium on History and Philosophy of Sciences, G.N.D. University, Amritsar (1988)
- 107. Schrodinger Cent.Refresher Course on Theoretical Phys. Devi Ahilyabai Univ., Indore (1987)
- International Conference on Changing Faces of Particle & Nuclei, Banaras Hindu University, Varanasi (1986)
- 109. UGC Symposium Monopoles, Dyons & Tachyons, Kumaon Univ., Nainital (1985)
- SERC Summer School on High Energy Physics, I.I.Sc., Bangalore (1985)
- 111. National Symp. on Group Theory & Applications, Manipur Univ., Imphal (1985)
- Symposium on High Energy Astrophysics & Astronomical Society Meeting, Gorakhpur University, Gorakhpur (1982)
- International Centenary Symposium on Relativity & Cosmology (Sir A. Eddington) Einstein Science Foundation, Nagpur (1982)
- 114. VI High Energy Physics Symposium, University of Mysore, Mysore (1982)
- 115. Advanced Institute on Relativity & Gravitation, M.M.M. College, Gorakhpur (1982)
- Symposium on Nuclear Interactions at High Energies, University of North Bengal, Raja Ram Mohanpur (1979)
- 117. IV High Energy Physics Symposium, Univ. of Rajasthan, Jaipur (1978)
- 118. III High Energy Physics Symposium, Inst. Of Physics, Bhubaneshwar (1976)

Further Link for Research Papers and Citations

http://inspirehep.net/search?p=find+ea+verma,+r+c

CV of Prof. Brindaban C. Ranu

A Name: BRINDABAN CHANDRA RANU

B Date of Birth: August 1, 1949 (Citizen of India by Birth)

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Phone: 91-33-2473, Ext. 1404

Present Position – J C Bose National Fellow (July 2008-August 10, 2017) and INSA Senior Scientist (Nov 2014- Oct 2017)

D Professional Career

- Ph.D. (Jadavpur University, 1982) working under the supervision of Prof. U.R. Ghatak at the department of Organic Chemistry, IACS.
- Postdoctoral work with Prof. T. Hudlicky at Virginia Tech, USA during 1982-1985 on total synthesis of triquinanes
- Senior Lecturer at IACS during 1984-89
- Reader at IACS during 1989-96
- Professor at IACS during 1996-2005
- Head of the Department of Organic Chemistry from August 1, 2003 to July, 2008
- Senior Professor from 2006-2013 (Retired in July, 2013)

E Honours and Award

- JC Bose National Fellow of DST, Govt. of India (2008-2017)
- Elected Fellow of the Indian National Science Academy in 2007
- Elected Fellow of the Indian Academy of Science in 1995
- Received Chemical Research Society of India Silver Medal in 2010
- Highest CPP (Citation per paper) and RCI (Relative Citation Impact) in Organic Chemistry Research in India During 2004-2013 (Current Science, 2015, 109, 870)
- Titular Member, IUPAC ChemRawn Committee
- Elected Fellow of the West Bengal Academy of Science & Technology in 1993
- Received Professor NS Narasimhan Endowment Award for Creativity in Organic Chemistry in 1993
- Received Sir Jagadish Chandra Bose 150th Centenary Award 2009 by the Science Association of Bengal
- Member of the Editorial Board, Indian Journal of Chemistry, Sec. B

- Member, Green Chemistry Task Force Committee of DST (2006-2015)
- Served as member, PAC of Organic Chemistry of DST for the period 1998-2002
- Visiting Professor at Universidad de Extremadura, Badajoz, Spain, during July 1995-March, 1996
- Visiting Professor at the Centre for Green Chemistry, Monash University, Clayton, Australia during May-June, 2001 with Royal Society Journal Grant Award.

F Recognitions

- Invited by Professor L. Ghosez, Guest Editor, Tetrahedron, to contribute an article on Strain Assisted Synthesis for Tetrahedron Symposia-in-Print
- Invited by Morton International Inc., USA to write a Review on "Selective Reduction with Zinc Borohydride" for their periodical, The Alembic
- Invited by Professor KPC Volhardt, Editor-in-Chief, SYNLETT to contribute an Account on some aspect to recent works
- Invited by Professor MJ Hearn, Associate Editor, Organic Preparations and Procedures International, to write a review on "Dealkylation of Ether"
- Invited by Dr. Karen Hindison, Coordinating Managing Editor, European Journals, to write a Microreview for European Journal of Organic Chemistry on Indium-mediated Reactions
- Invited by Prof. Leo Paquette, Editor-in-Chief, to write an article on zinc tetrafluoroborate to Electronic Encyclopedia of Reagents for Organic Synthesis in 2005 and on Indium(I) Iodide in 2006
- Contributed (on invitation) a chapter in a book on Green Chemistry published by Royal Society of Chemistry, UK
- · Delivered Prof. RK Barua Memorial Lecture, 2001 in Gouhati University
- Delivered Prof. MK Rout Memorial Lecture, 2004 at the 18th Annual Conference of Orissa Chemical Society at Bhubaneswar
- Delivered Foundation Day Lecture at Central Fuel Research Institute, Dhanbad in 2005.
- Delivered Colloquium Lecture at Indian Institute of Chemical Biology, Kolkata in 2005
- Delivered Keynote Lecture at the 7th International Symposium on Molten Salts Chemistry and Technology at Toulouse, France in 2005
- Invited to deliver Colloquium lecture at NISER, Bhubaneswar on February, 18, 2009
- Invited to be Discussion Leader in the Gordon Conference on Green Chemistry held at Bates College, Maine, USA in 2008
- Delivered several lectures (semi-popular) on Green Chemistry at different Institutes and Organizations throughout India apart from regular scientific lectures.
- Contributed a Chapter in a book on Catalysis by Nanoparticles published by Wiley in 2013

- Contributed a chapter in a book on synthesis of Biologically Active Heterocyclic Molecules published by Elsevier in 2014
- Edited a book on Ball Milling published by Royal Society of Chemistry in 2015
- F Ph.D. Students Supervised: 32 (degree awarded), currently working: 4 (Ph.D.) and 1 (PDF)
- G Research Interest: Green Synthesis, Green Catalysis using Supported Metals, Benign and Less Expensive Transition metals, Metal Nanoparticles; Visible Light Photocatalyzed Reaction and Ball Milling mediated synthesis.
- H Research Publications (total): 265 + Citations: 9348; h-index 56; i10-index:188
 Publications in last five years: 52, Citations: 4256; h-index: 35; i10-index: 115
- Visible Light Photocatalyzed Carbon-Heteroatom Bond Formation and Synthesis of Related Compounds –N. Mukherjee, P. Maity, T. Ghosh, S. Panja, B. C. Ranu, Currenzi Green Chemistry, 2017, 000, DOI: 10.2174/2213346104666170130150016
- Copper-Silver Dual Catalyzed Decyanative Carbon-Selenium Cross-Coupling N. Mukherjee, D. Kundu, B. C. Ranu, Adv. Synth. Catal., 2017, 359, 329.
- Calcium Mediated C-F Bond Substitution in Fluoroarenes towards C-Chalcogen Bond Formation – P. Maity, S. Ahammed, R. N. Manna, B. C. Ranu, Org. Chem. Front., 2017, 4, 69-76.
- Silver-catalyzed Carbon-selenium Cross Coupling Using N- (phenylseleno)phthalimide: An Alternate Approach to the Synthesis of Organoselenides – N. Mukherjee, S. Paul, A. Saha, B. C. Ranu, Can J. Chem., 2017, 95, 51.
- Cobalt Catalysed, Copper Assisted C_(sp2)-P Cross Coupling T. Ghosh, P. Maity, D. Kundu, B. C. Ranu, New J. Chem., 2016, 40, 9556.
- Palladium Catalyzed Norbornene Mediated Tandem Ortho C-H Amination/ Ipso C-I Cyanation of Iodoarenes: Regiospecific Synthesis of 2-Amino Benzonitrile – B. Majhi, B. C. Ranu, Org. Lett., 2016, 18, 4162.
- One-pot Suzuki Coupling of Aromatic Amines via Visible Light Photocatalyzed Metal Free Borylation Using t-BuONO at Room Temperature – S. Ahammed, S. Nandi, D. Kundu and B. C. Ranu, Tetrahedron Lett., 2016, 57, 1551.
- Palladium Catalyzed Decarboxylative Selective Acylation of 4H-benzo[d][1,3]oxazin-4one Derivatives with α-Oxocarboxylic acids via Preferential Cyclic Imine-N-directed
 Aryl C-H Activation B. Majhi, D. Kundu, T. Ghosh, B. C. Ranu, Adv. Synth. Catal.,
 2016, 358, 283.

- Nickel-Copper Catalyzed C(sp2)-N Cross Coupling of Cyclic and Bridged Amides: An Access to Cyclic Enamides and Alkenyl Vince Lactams – P. Maity, D. Kundu, B. C. Ranu, Adv. Synth. Catal., 2015, 357, 3617.
- Ascorbic Acid Promoted Oxidative Arylation of Vinyl Arenes to 2-Aryl Acetophenones without Irradiation at Room Temperature under Aerobic Conditions – B. Majhi, D. Kundu, B. C. Ranu, J. Org. Chem., 2015, 80, 7739.
- Transition Metal- and Solvent-free Synthesis of Unsymmetrical Diaryl Sulfides and Selenides under Ball-milling – N. Mukherjee, T. Chatterjee, B. C. Ranu, ARKIVOC, 2016(ii), 53.
- Microwave Assisted Synthesis of Chalcogenides S. Ahammed, D. Kundu, N. Mukherjee,
 B.C. Ranu, Curr. Microwave Chem., 2016, 2, 1.
- First Application of Heterogeneous Cobalt Catalysis in C_{sp2}-N Cross Coupling of Activated Chloroarenes under Ligand-Free Conditions- N. Mukherjee, T. Chatterjee, B. C. Ranu, Eur. J. Org. Chem., 2015, 4018. (highlighted in SYNFACT, 2015, 11(9), 1000)
- Cobalt Catalyzed Intermolecular C(sp²)-O Cross-Coupling D.Kundu, M. Tripathy, P. Maity and B. C. Ranu, Chem-Euro J. 2015, 21, 8727.
- Visible Light Photocatalyzed Metal Free C-H Heteroarylation of Heteroarenes at Room Temperature: A Sustainable Synthesis of Biheteroaryls – P. Maity, D. kundu, B. C. Ranu, Eur. J. Org. Chem., 2015, 1727.
- Pd-Catalyzed Oxidative C-C Bond Cleavage of α-Hydroxy Ketone: Application to C-H Acylation of Azoarenes and Synthesis of a Liver(X) Receptor AgonIst – B. MaJhl, D. Kundu, B. C. Ranu, Asian J. Org. Chem., 2015, 4, 154.
- Metal and Solvent Free Selective Oxidation of Sulfides to Sulfones using Bifunctional lonic Liquid [pmim]IO4 – S. Ahammed, D. Kundu, M. N. Siddiqui, B. C. Ranu, Tetrahedron Lett., 2015, 56, 335.
- A Co-operative Ni/Cu System for Csp-Csp and Csp-Csp2 Cross-coupling Providing a Direct Access to Unsymmetrical 1,3-Diynes and En-ynes – N. Mukherjee, D. Kundu, B. C. Ranu, Chem. Commun. 2014, 50, 15784.

- Cu-Catalyzed Fe-Driven Csp-Csp and Csp-Csp2 Cross Coupling: An Access to 1,3-Diynes and 1,3-Enynes S. Ahammed, D. Kundu, B. C. Ranu, J. Org. Chem. 2014, 79, 7391 (highlighted in Synfact, 2014, 10(11), 1231).
- 20. A Direct Synthesis of Selenophenes by Cu-Catalyzed One-pot Addition of Selen i um Moiety to (E,E)-1,3-Dienyl Bromides and Subsequent Nucleophilic Cyclization- P. Maity, D. Kundu, R. Roy, B.C. Ranu, Org. Lett. 2014, 16, 4122 (highlighted in Synfact, 2014, 10(11), 1220).
- Palladium Supported on Silica Gel Confined Ionic Liquid as a Reusable Catalyst for Carbon-Carbon Cross Coupling Reaction in Water – S. Ghosh, R. Dey, S. Ahammed, B.C. Ranu, Clean Techn Environ Policy, 2014, 16, 1767.
- Tert-Butyl Nitrite Mediated Regiospecific Nitration of (E)-Azoarenes via Palladi um Catalyzed Directed C-H Activation – B. Majhi, D. Kundu, S. Ahammed, B. C. Ranu, Chem-Euro J. 2014, 20, 9862.
- ZnO Supported Pd Nanoparticles Catalyzed Ligand- and Additive-free Cyanation of Unactivated Aryl Halides Using K4[Fe(CN)6] – T. Chatterjee, R. Dey, B C. Ranu, J. Org. Chem. 2014, 79, 5875 (highlighted in Synfact, 2014, 10(9), 0990).
- Visible Light Photocatalyzed Direct Conversion of Aryl/Heteroaryl Amines to Selenides at Room Temperature - D. Kundu, S. Ahammed, B. C. Kanu, Org. Lett. 2014, 16, 1814
- Copper-Assisted Nickel Catalyzed Ligand Free C(sp²)-O Cross Coupling of Vinyl Halides and Phenols – D. Kundu, P. Maity, B.C Ranu, Org. Lett. 2014, 16, 1040.
- 26. Synthesis of Bioactive Five- and Six-membered Heterocycles Catalyzed by Heterogeneous Supported Metals – B. C. Ranu, T. Chatterjee, N. Mukherjee, P. Maity, B. Majhi, in Green Synthetic Approaches for Biologically Relevant Heterocycles, ed. G. Brahmachari, Elsevier, UK, 2014, pp 7-40.
- 27. Carbon-Heteroatom Bond Forming Reactions and Heterocycle Synthesis under Ball Milling- B. C. Ranu, T. Chatterjee, N. Mukherjee, in Ball Milling Towards Green Synthesis: Applications, Projects and Challenges, Ed. Brindaban Ranu and Achim Stolle, Royal Society of Chemistry, UK, 2014, pp 1-33.

- Ball Milling Towards Green Synthesis: Applications, Projects and Challenges, Ed_ Brindaban Ranu and Achim Stolle, Royal Society of Chemistry, UK, 2015.
- Reaction under Ball-Milling: Solvent, Ligand and Metal Free Synthesis of Unsymmetrica
 Diaryl Chalcogenides- N. Mukherjee, T. Chatterjee, B. C. Ranu, J. Org. Chem. 2013, 78, 11110.
- Heterogeneous Cu(II) Catalyzed Solvent Controlled Selective N-Arylation of Cyclic
 Amides and Amines with Bromo-iodoarenes − D. Kundu, S. Bhadra, N. Mukherjee, B. Sreedhar, B.C. Ranu, Chem-Euro J., 2013, 19, 15759.
- Ionic Liquid as Base and Phase Transfer Agent: A Green Protocol for the Synthesis of Diaryl Sulfides in Water – D. Kundu, B. C. Ranu, J. Indian Chem. Soc. (special issue in honour of Professor Sunil K. Talapatra on the occasion of his 80th birthday), 2013, 90, 1761.
- Bromide-bromate Couple of Varying Ratios for Bromination, Vicinal Functionalisation and Oxidation in a Clean Manner – S. Adimurthy, B. C. Ranu, G. Ramachandraiah, B. Ganguly and P. K. Ghosh, Curr. Org. Synth., 2013, 10, 864.
- Magnetically Separable CuFe₂O₄ Nanoparticles Catalyzed Ligand-free C-S Coupling in Water: Access to (E)- and (Z)-Styrenyl-, Heteroaryl and Sterically Hindered Aryl Sulfides — D. Kundu, T. Chatterjee, B. C. Ranu, Adv. Synth. Catal. 2013, 355,2285.
- Aryl Carbon-Heteroatom Coupling Reactions using Nano-Metal Catalyst B. C. Ranu, D. Saha, D. Kundu, N. Mukherjee in Nanocatalysis: Synthesis and Applications, eds. V. Polshettiwar, T. Asefa, Wiley-VCH, 2013, pp 189-220.
- Solvent-controlled Halo-selective Selenylation of Aryl Halides Catalyzed by Cu(II) Supported on Al₂O₃. A General Protocol for the Synthesis of Unsymmetrical Organo Mono-and Bis-Selenides – T. Chatterjee, B. C. Ranu, J. Org. Chem., 2013, 78, 7145 (Highlighted in Synfact, 2013, 9, 1132).
- Palladium Supported on Silica Gel Confined Ionic Liquid as a Reusable Catalyst for Carbon-Carbon Cross Coupling Reaction in Water – S. Ghosh, R. Dey, S. Ahammed, B.C. Ranu, Clean Techn Environ Policy, 2013, DOI 10.1007/s10098-013-0658-7

- Mechanism of Inducible Nitric-Oxide Synthase Dimerization Inhibition by Novel Pyrimidine Imidazoles – L. Nagpal, M. M. Haque, A. Saha, N. Mukherjee, A. Ghosh, B. C. Ranu, D. J. Stuehr, K. Panda, J. Biol. Chem. 2013, 288, 19685.
- Aerobic Oxidation of Thiols to Disulfides under Ball-milling in Absence of Any Catalyst, Solvent and Base – T. Chatterjee, B. C. Ranu, RSC Adv. 2013, 3, 10680.
- 29. Palladium and Copper Catalyzed One-pot Sonogashira Reaction of 2-Nitrolodobenzenes with Aryl Acetylenes and Subsequent Regioselective Hydration in Water: Synthesis of 2-(2-Nitrophenyl)-1-aryl Ethanones S. Ahammed, R. Dey. B. C. Ranu, Tetrahedron Lett. 2013, 54, 3697.
- Solvent–free One-pot Synthesis of 1,2,3-Triazole Derivatives by 'Click' Reaction of Al kyl Halides or Aryl Boronic Acids, Sodium Azide and Terminal Alkynes over Cu/Al₂O₃ Surface under Ball-milling – N. Mukherjee, S. Ahammed, S. Bhadra, B.C. Ranu, Green Chem. 2013, 15, 389.
- A General and Green Procedure for the Synthesis of Organochalcogenides by CuFe₂O₄ Nanoparticle Catalysed Coupling of Organoboronic Acids and Dichalcogenides in PEG-400, D. Kundu, N. Mukherjee, B. C. Ranu, RSC Adv. 2013. 3, 117.
- Copper (I) Hydroxyapatite Catalyzed Sonogashira Reaction of Alkynes with Styrenyl Bromides. Reaction of Cis-Styrenyl Bromides Forming Unsymmetric Diynes – D. Saha, T. Chatterjee, M. Mukherjee, B. C. Ranu, J. Org. Chem. 2012, 77, 9379.
- 43. An Efficient and General Procedure for the Synthesis of Alkynyl Chalcogenides (Selenides and Tellurides) by Alumina-Supported Cu(II)-Catalyzed Reaction of Alkynyl Bromides and Diphenyl Dichalcogenides S. Ahammed, S. Bhadra, D. Kundu. B. C. Ranu, Tetrahedron Symposia-in-Print, Tetrahedron 2012, 68, 10542 (Highlighted in Synfact, 2013, 9, 232)
- Solvent-free Transesterification in a Ball-mill over Alumina Surface T. Chatterjee, D. Saha, B.C. Ranu, Tetrahedron Lett. 2012, 53, 4142.

- 45. Ruthenium Catalysed One-pot Synthesis of S-Allyl and Cinnamyl Dithiocarbamates Using Allyl and Cinnamyl Acetates in Water – S. Ahammed, A. Saha. B.C. Ranu, RSC Adv. 2012, 2, 6329.
- 46. Microwave-assisted Transition Metal Free Reaction of Aryl Diazonium Fluoroborate and Diaryl Dichalcogenides in Dimethyl Carbonate: A Green Procedure for the Synthesis of Unsymmetrical Diaryl Chalcogenides – D. Kundu, D. Saha, B.C. Ranu, Green Chem. 2012, 14, 2024.
- Iron Nanoparticles-Catalyzed Electrophilic Amination of Functionalized Organo-copper and Organozinc Reagents – S. Bhadra, S. Ahammed, B. C. Ranu, Current Organic Chemistry, 2012, 16, 1453.
- 48. Highly Selective Reduction of Nitroarenes by Iron(0) Nanoparticles in Water R. Dey, N. Mukherjee, S. Ahammed, B.C. Ranu, Chem. Commun. 2012, 48, 7982.
- Ionic Liquid/PPh3 Promoted Cleavage of Diphenyl Disulfide and Diselenide: A Straightforward Metal-free One-pot Route to the Synthesis of Unsymmetrical Sulfides and Selenides – S. Banerjee, L. Adak, B.C. Ranu, Tetrahedron Lett. 2012, 53, 2149.
- Palladium-catalyzed Site-selective Arylation of Symmetric Dichlorobenzaldehyde to Nonsymmetric Diaryl Benzaldehyde via Suzuki Coupling – R. Dey, B.C. Ranu, Tetrahedron Lett. 2012, 53, 1558.
- Copper Nanoparticle Catalyzed Carbon-Carbon and Carbon-Heteroatom Bond Formation with Greener Perspective – B.C. Ranu, R. Dey, T. Chatterjee, S. Ahammed, Chem Sus Chem 2012, 22-44.
- Hydroxyapatite-Supported Cu(I)-Catalysed Cyanation of Styrenyl Bromides with K4[Fe(CN)6]: An Easy Access to Cinnamonitriles- D. Saha, L. Adak, M. Mukherjee, B.C. Ranu, Org. Biomol. Chem. 2012, 10, 897.

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Dr S S Chahal Vice Chancellor Desh Bhagat University



Desh Bhagat University, Mandi Gobindgarh, has appointed S S Chahal as its Vice-Chancellor. Acc ording to the university authorities, Chahal has been a former vice-chancellor of Maharana Partap University of Agriculture and Technology, Udaipur. He has been a scholar of international fame in the agriculture field and has authored a number of books and contributed articles to various national and international journals, besides undertaking a number of research projects. Shalini Gupta, Director General of Desh, Bhagat Group of Institutes, has been appointed Pro Vice-Chancellor of the university while Virinder Singh will work as Registrar of the university. As per the university authorities, Shalini Gupta has been a management and entrepreneurship scholar and has to her credit a number of books. She has been associated with Desh Bhagat Group of Institutes since its very inception and has played an important role in its all round growth.

Dr. Virinder Singh who has a long teaching and administrative experience and has been a renowned scholar and educationist. Chancellor of Desh Bhagat University Zora Singh said that the mission of his university is to impart value based education with focus on research, innovation, creativity and to generate and nurture employability among students. The courses being run in this university include PhD, MPhil, MTech, PG, UG Integrated Programs in Management, Commerce, Education, Animation & Multimedia, Engi-neering, Nanotech, Robotics, Fashion, Journalism, etc. Media and Theatre, Computer Science, Library Science, Nursing, Agriculture, Hotel Mgt., Ayurveda, Bio Technology, Fine Arts and Design, Literature, Airlines, Social Sciences, Life Sciences, Applied Sciences and Agriculture.



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Mobile: +919417793706 Date of Birth: 4. 6.1954.

Educational Qualifications

Class	Year	Univ./Board	Division	Distinction
Sr. Secondary	1971	H.P. Board	First	
B.Sc.	1975	H.P. Univ.	First	Got National Merit Scholarship
M.Sc. (statistics)	1984	P.U. Chandigarh	First	Medalist
M.Phil (statistics)	1985	P.U. Chandigarh	First	Topper
Ph.D. (Statistics)	1990	P.U. Chandigarh		

RESEARCH AREAS: (i) MULTIPLE COMPARISON PROCEDURES

(ii) STATISTICAL INFERENCE

(iii) APPLIED STATISTICS

TEACHING AND RESEARCH EXPERIENCE

A. Research Experience: Twenty nine years research experience.

RESEARCH PUBLICATIONS

- 'Selection procedures for scale parameters using two sample statistics' jointly with G.P.Mehta. Sankhya (1989), 51, Ser. B, 149-157.
- (2) 'Selection procedures for hazard rates based on two sample statistics' jointly with G.P.Mehta. Indian Jl. of Pure and Applied Math. (1989), 20, 773-781.
- (3) 'Selection procedures for scale parameters' jointly with G.P.Mehta. Jl. of Indian statist. Assoc. (1991), 29, 1-12.

- (4) 'Selection procedures for scale parameters using two sample Ustatistics' jointly with G.P.Mehta. Australian Jl. of Statist (1991), 33, 347-362.
- (5) 'Some Characterizations of exponential distribution jointly with Harshinder Singh, The Jl. of Indian Association on Productivity, Quality and Reliability (IAPQR) (1992), 17(2), 51-54.
- (6) 'A Class of selection procedures for scale parameters' Jointly with Narinder Kumar and G.P.Mehta. Jl. of Indian Statist. Assoc. (1992),30,75-88.
- (7) 'Selection procedures for location parameters based on two sample Ustatistics' jointly with Narinder Kumar and G.P.Mehta. Kolkata Statist. Assoc. Bulletin (1992),42,201-219.
- (8) 'A selection procedure for selecting good exponential populations' jointly with S.K.Sharma. Biometrical JI. (1993), 35, 361-369.
- (9) 'Selecting good populations: The scale parameter case' jointly with S.K.Sharma and Neeraj Misra. South African Statistical Jl. (1993),28,11-21.
- (10) 'Simultaneous confidence intervals for all ratios to the best: The exponential distributions' jointly with Narinder Kumar and Neeraj Misra. IEEE Trans. Reliability (1994), 43, 61-64.
- (11) 'Selecting populations better than the control: Scale parameter case' jointly with G.P.Mehta, Statistics & Decisions (1993),11,251-271.
- (12) 'A class of selection procedures for Weibull populations' jointly with G.P.Mehta. IEEE Trans. Reliability (1994),43,65-70.
- (13) 'A note on confidence intervals and probability of correct selection: scale paremeter case' jointly with Suresh Kumar and Neeraj Misra. Jl. of Indian statist. Association (1993),31,115-123.
- (14) 'A distribution free test for homogeneity against ordered alternatives' jointly with Narinder Kumar and G.P.Mehta. Comm. Statist. Theor. & Meth. (1994), 23(4), 1247-1256.
- (15) 'A class of distribution-free tests for testing homogeneity of location against ordered alternatives' jointly with Narinder Kumar and Anil Kumar Dhawan. South African Statistical Journal (1994), 28, 55-65.
- (16) 'Selection procedures for scale parameters when the populations have a common known quanatile' jointly with Narinder Kumar and G.P.Mehta. Metron (1994), Llin. 3-4, 171-196.

- (17) 'Testing homogeneity of scale parameters against ordered alternatives using Hodges-Lehman estimators' jointly with Anil Kumar Dhawan_ Statistics (1996), 26, 1-12.
- (18) 'Ranking and subset selection procedures for populations with censored data: A review' jointly with Harshinder Singh. Analysis of Survival Data. IMS-Lecture Notes-memograph Series (1995),7,219-230.
- (19) 'Simultaneous one-sided confidence intervals for the ordered pair-wise differences of exponential location parameters'. Comm. in Statist. Theor. & Meth. (1997), 26(1),247-262.
- (20) 'Drug related involvement of specific sites in fixed eruptions: A statistical evaluation' jointly with V.K. Sharma and S. Dhar (PGIMER). Journal of Dermatology (Jl. of Japanese Dermatological Association) (1996), 23(8), 530-534.
- (21) 'Simultaneous confidence bounds for the ratios of scale parameters' jointly with Suresh Kumar Sharma and Neeraj Misra. Statistics & Decisions (1997), 15, 165-181.
- (22) 'A one-sided test for testing homogeneity of scale parameters against simple ordered alternative' jointly with Anil Kumar Dhawan. Comm. Statist. Theor. & Methods (1999), 28(10), 2417-2440.
- (23) 'A selection procedure for selecting least dispersive life distribution' jointly with Suresh Kumar Sharma. Statistica, (2000), anno LXn. 1, 87-96.
- (24) 'Selection procedures for selecting largest mean residual life distribution' jointly with H.J. Khamnei and Narinder Kumar. Proceedings of the Fifth Iranian Statistics Conference, August 22-24, (2000), 120-133.
- (25) 'Estimating the true probability of correct selection: two exponential distributions' jointly with Neeraj Mishra & S. K. Sharma. American Jl. of Mathematical & Management Sciences (2001), 21, 109-124.
- (26) 'Simultaneous multiple comparisons with the worst and best' jointly with Neeraj Mishra & S. K. Sharma. American Jl. of Mathematical & Management Sciences (2002), 22, 115-139.
- (27) 'A class of selection procedures based on sample quasi ranges' jointly with Parminder Singh and Satya N. Mishra. American Jl. of Mathematical & Management Sciences (2002), 22, 353-367.
- (28) 'Multiple Comparison of Ranked Location Parameters: Logistic Populations Case' jointly with Parminder Singh. Jl. of Combinatorics, Information & System Sciences, (2002), 27, 173-183.
- (29) 'Confidence intervals for the ratios of ranked scale parameters for the censored data' jointly with Parminder Singh. American Jl. of Mathematical & Management Sciences (2003), 23, 323-345.

- (30) 'A selection procedure for good logistic populations' jointly with Parminder Singh. Journal of the Korean Statistical Society (2003), 32(3) 1-11.
- (31) 'A one sided test based on sample quasi-ranges' jointly with Parminder Singh. Commun. Statist. Theory and Methods (2004), 33(4), 835-849.
- (32) 'Some multiple comparisons using sample quasi ranges on censored data' jointly with Parminder Singh. Test (2004), 13, 313-334.
- (33) 'A multiple three-decision procedure: exponential case' jointly with Parminder Singh. Panjab University Research Journal (Science) (2004), 54, 27-36.
- (34) 'A Selection Procedure For Selecting Life Distribution with Least value of Measure Based on Reliability Function' Jointly with Parminder Singh. Acta Ciencia Indica (2004), XXX M No. I, 57 – 62.
- (35) 'Selection of good populations and related confidence intervals' jointly with Parminder Singh and S. N. Mishra. American Jl. of Mathematical and Management Sciences (2005), 25, 121-148.
- (36) 'Simultaneous Confidence Intervals for the successive ratios of scale parameters' jointly with Parminder Singh. Jl. of Statistics and Applications (2007), 2, 33-49.
- (37) 'Simultaneous confidence bounds for all ratios to the best" Jointly with N. Kumar and G. P. Mehta. Journal of Applied Statistical Science (2009), 503-514.
- (38) 'Step-up tests for comparing several exponential populations with control: Location case' Jointly with Parminder Singh. Americal Jl. of Mathematical and Management Sciences (2009), 29, 189-199.
- (39) 'Distribution of ratio of extreme of isotonic estimators of Chi-square variables with applications' jointly with Parminder Singh and Narendra Kumar. Jl. of Statistical Planning and Inference (2009), 139, 3262-3269.
- (40) 'A test of homogeneity of several variances against tree ordered alternative' jointly with Parminder Singh and Narendra Kumar. Statistics and Probability Letters (2009), 79(22), 2315-2320.
- (41) 'A note on comparing several variances with a control variance' jointly with Parminder Singh and Anju Goyal. Statistics and Probability Letters, (2010), 80, 1995-2010.
- (42) 'Subset Selection of Treatments ε-better than the best control' jointly with Anju Goyal and Parminder Singh. International Journal of Mathematics, Game Theory and Algebra (2010), 20, 1-18.

- (43) "Non-parametric multiple comparisons with more than one control for scale parameters using two-sample Statistics" jointly with Vishal and Parminder Singh. Jl. of Combinatorics, Information and System Sciences (2011), 36 (1), 299-323, a special E.J. Dudewicz Festschrift issue.
- (44) 'Multiple comparisons with more than one control for exponential location parameters under heteroscendasticity, jointly with Vishal Maurya and Anju Goyal. Communication in Statistics-Simulation and Computation (2011), 40(5), 621-644.
- (45) 'A note on testing homogeneity of several exponential location parameters' jointly with Parminder Singh and Narendra Kumar. Communication in Statistics -Theory and Methods 2012, 41, 474-484.
- (46) 'Statistical analysis of air quality indices: A study' jointly with R. Nimesh, S. Arora and K.K. Mahajan. International journal of Ecological Economics and Statistics (IJEES) 2012 (4), 27, 89-103.
- (47) 'Simultaneous selection of treatments better and worse than the best and worst controls' jointly with Anju Goyal and Parminder Singh. Statistical Methodology, 2012, 9, 573-588.
- (48) Multiple Comparisons with a control for exponential parameters under heteroscedasticity, jointly with Vishal Mourya and Parminder Singh. Journal of Applied Statistics, 2013.
- (49) 'A multiple three-decision procedure for comparing several treatments with a control under heteroscedasticity' jointly with Anju Goyal and Vishal Maurya. Comm. Statist. - Simulation and Computation, 2013, 42, 1763-1784.
- (50) 'On a Multiple three decision problem for comparing several treatments with the best control' Jointly with Anju Goyal and Parminder Singh. Comm. Statist-Theory and Methods, 2013, 42, 3432-3452.
- (51) 'Predicting air quality using ARIMA, ARFIMA and H W Smoothing' jointly with R. Nimesh, S. Arora and K.K. Mahajan. Model Assisted Statistics and Applications Journal, 2014, 9(2)137-149.

B. RESEARCH SUPERVISION EXPERIENCE

Candidates Supervised for Ph. D.

- One candidate (Narinder Kumar, Professor, Dept. of Statistics, P.U.) has completed his Ph.D. degree under the joint supervision of Dr. G.P.Mehta and myself in Feb., 1994.
- (2) Second candidate (S.K.Sharma, Professor, Dept. of Statistics, P.U.) has completed his Ph.D. degree under the joint supervision of myself and Dr. Neeraj Misra in Oct., 1995.

- (3) Third candidate (Parminder Singh, Department of Mathematics, Guru Nanak Dev University, Amritsar) completed his Ph. D. Degree in Dec., 2002 under my supervision.
- (4) Fourth candidate (Anil Kumar Dhawan, Now in USA) completed his Ph. D. in Nov., 2003 under my supervision.
- (5) Fifth Candidate (Anju Goyal, Assiatant Professor, Department of Statistics, Panjab University, Chandigarh) completed her Ph. D in Jan., 2012 under the joint supervision of myself and Parminder Singh (Associate Professor, Department of Mathematics, GNDU, Amritsar).

(6) Sixth Candidate (Vishal Maurya) completed his Ph. D in June, 2012 under the joint supervision of myself and Parminder Singh (Associate Professor, Department of Mathematics, GNDU, Amritsar).

(7) Seventh candidate (Ruby Nimesh) completed her Ph. D. in March, 2014 under the joint supervision of S. Arora, K.K.Mahajan and myself.

Candidates Pursuing Ph. D.

Currently two students are pursuing Ph.D. research work under my supervision. One of them is likely to submit his Ph.D. Thesis shortly.

C. Editorial Work

Regularly referring research papers of the journals: (i) Communication in Statistics- Theory and Methods (ii) Computational Statistics and Data Analysis; (III) American Journal of Mathematical and Management Sciences (iv)Statistical Methodology; (v) Communication in Statistics-Simulation and Computation; (vi) Statistics and Probability Letters.

D. Teaching Experience

(i) Twenty Nine years teaching experience. Taught Statistics Courses in the Six Months Course Work (Pre-Ph. D) Programme (Stratistics), M. Phil (Statistics), Post-graduate (M.Sc. and M. Tech) and under graduate [B.Sc.(honours) and B. Tech.] classes.

Courses Taught

Foundations of Measurement Trunking theory and Random Processes

Operations Research

Quantitative Methods Theory of Statistics Statistics for Economic Analysis

Class

M. Tech (Instrumentation)
M. Tech (Optical Wireless
Communication Technology)
B.Tech.(Electronics ,
computer, IT) and M.Sc.
MBA.
M.A. (Economics).
B.A. (Hons. Economics).

Bio-Statistics

Statistical and System Analysis

Biostatistics

Probability and Mathematical Statistics
Quantitative Techniques:

(Hons, Microbiology, Biophysics), B. Tech (Bioinformatics). M.Sc. (Environment).

M.Sc. (Biochemistry), B.Sc. (

M. Sc.(System Biology and Bio-informatics). M.Sc. (Mathematics). MBA (P.U. as guest faculty)

M.Sc. & M. Phil (Statistics)

Probability, Sampling, Inference I & II, M.S. Stochastic Processes, Design of Experiments, Statistical Methods, Reliability, Queuing Theory, Order Statistics, Non-parametric Methods, Multivariate Analysis, Operations research, Statistical Quality Control), Probability and Measures, Ranking and Selection, Numerical Analysis.

Administrative Experience: Chairperson Department of Statistics (April 2000 to March, 2003).

Also served as:

- (i) Advisory committee member of UGC DRS, Department of Statistics, Sardar Patel University, Gujarat.
- (ii) Member P G Board of Studies (Statistics and Mathematics, P U Chandigarh), GNDU Amritsar, KU Kurukshetra.
- (iii) Member U G Board of Studles in Statistics P U Chandigarh.
- (iv) Member Academic, Administrative and Technical Committees of the Department.

CONFERENCES/SEMINARS/ WORKSHOPS ATTENDED/ORGANIZED

- Delivered an invited talk "Stochastic and Mathematical modeling using data exploratory techniques" in the International Conference on Recent Trends in Mathematical Modeling and Statistical Analysis organized by Post Graduate Department pf Mathematics J C D A V College Dasuya on 30-9-2014.
- Delivered an invited talk in the two days UGC sponsored National Seminar on "Research in Statistical Science: Past, Present and Future" organized by the Department of Statistics, Sardar Patel University, Vallabh Vidyanagar, Anand (Gujarat) from Feb 21-22, 2014.
- Organizing secretary of Twenty First International Conference of Forum for Interdisciplinary Mathematics on Interdisciplinary Mathematics, Statistics and

- Computational Techniques (IMSCT 2012 FIM XXI) from Dec 15- 17, 2012 at Department of Statistics, Panjab University Chandigarh.
- Attended workshop on Reliability Theory and Survival Analysis from December 3-5, 2012 organized by Department of Mathematics and Statistics, IIT Kanpur.
- Delivered an invited talk titled "Statistical modeling of real life data using SPSS" to the participants of national workshop on data analysis using SPSS, organized by the Department of Statistics and Operation Research, Kurukshetra University Kurukshetra, from Sept. 21-22, 2012.
- Delivered Key note address titled "Data reduction techniques" in the UGC sponsored National Workshop on Sparse Statistics, optimization and Machine Learning on 31st March, 2012 at Lyallpur Khalsa College Jallandhar.
- Attended 6th Chandigarh Science Congress, organized by Panjab University, Chandigarh, from 26-28 Feb., 2012.
- Attended National Conference on Advances and Applications in Statistics, organized by Dept. of Statistics, PU Chandigarh from Feb 20-21, 2012.
- Attended International Conference on Industrial and Applied Mathematics (ICIAM) at Vancouver, Canada from 18-22 July, 2011 Sponsored by NBHM through national level selection.
- 10. Delivered an Invited talk titled "Isotonic estimators based distribution with applications: ChI-Square variable case" in the "International Conference on New Trends in Life Testing, Bayesian Inference, Sampling Theory, Biostatistics, Bio-informatics and Computer Applications" organized by Banaras Hindu University from 5-8 Jan., 2011.
- Delivered Key note Address in the UGC sponsored National Seminar on Role of Statistics in Physiotherapy organized by Lyallpur Khalsa College Jalandhar from Nov. 25 - 27, 2010.
- Delivered lecture on Discriminant analysis, factor analysis and survival analysis to the participants of workshop on Research and Data Analysis Using SPSS 18.0 organized by the Department of Statistics and SPSS (IBM) during Dec. 16-17, 2010.
- Delivered an invited talk titled "Distribution of ratio of extreme of isotonic estimators of Chi-square variables with applications" in the Indian Science Congress held at Trivendrum (Kerala) from Jan. 3-8, 2009.
- 14. Attended and presented a paper titled "Non-parametric tests for testing simple ordered alternative for scale parameters using two sample statistics" in the XVIII International conference of the Forum for Interdisciplinary Mathematics (FIM) on Interdisciplinary Mathematical and Statistical Techniques held from August 2-4, 2009 at Jaypee University of Information and Technology (JUIT), Himachal Pradesh.

- 15. Delivered an invited talk to the participants of Diamond Jubilee Workshop on Applied Statistical Techniques for Social Scientists organized by the Department of Statistics Panjab University on 20-3-2008.
- Delivered an invited talk to the participants of Diamond Jubilee Symposium on Statistical Techniques: Recent Trends and Advances organized by the Department of Statistics, Panjab University, Chandigarh during March 18-19, 2008.
- 17. Attended and presented a paper titled 'Step-up tests for comparing several exponential populations with control: Location case' in the International Conference on Statistical Science, OR & IT held at TIRUPATI during Jan., 7-9, 2007.
- 18. Delivered an invited talk titled 'Simultaneous Confidence Intervals for the Successive Ratios of Scale Parameters' in the International Conference on Recent Advances in Statistics organized by the Department of Mathematics and Statistics, IIT, Kanpur during Jan., 04 – 06, 2005.
- 19. Delivered an Invited talk titled 'Simultaneous multiple comparisons with the worst and best' in the XXII Annual Conference of Indian Society for Probability and Statistics, organized by the Department and Center for Advanced Studies in Statistics, Pune University, Pune during August 11-14, 2002.
- 20. Attended and presented a paper titled "A class of asymptotically distribution free tests for symmetry" in an International Conference on Statistical Inference & Reliability to honour Prof. J.V. Deshpande concurrently with the XXI Annual Conference of Indian Society for Probability and Statistics (ISPS) and Annual Conference of Indian Chapter of International Society of Bayesian Analysis, organized by the Department of Statistics, Panjab University, Chandigarh, during Dec. 21- 24, 2001.
- 21. Attended an International Conference on Recent Developments in Statistics and Probability and Their Applications organized by International Indian Statistical Association (IISA) and other Indian Statistical Organizations at India International Center, New Delhi, from Dec. 30, 2000 to Jan. 2, 2001 and presented a paper entitled "A class of selection procedures based on sample quasi ranges".
- 22. Attended International Conference on Order Statistics and Extreme Values Theory and Applications organized by the Dept. of Studies in Statistics, University of Mysore, from Dec. 18-20, 2000 and presented a paper entitled "Simultaneous selection of Extreme populations based on sample quasi ranges".
- 23. Attended National Conference on Statistical Inferences and Reliability organized by the Dept. of Statistics, P.U., Chandigarh from Nov. 15-17, 2000 and presented a paper entitled "A class of selection procedures for selecting good populations" jointly with Parminder Singh.

- 24. Attended & presented a research paper in National Conference on Applied Statistics and Operations Research organized by Department of Statistics, Nagpur University, Nagpur from Nov. 05-6,1998.
- 25. Attended International Conference on Combinatorics, Statistics, Pattern Recognition and Related Areas hosted jointly by the Departments of Mathematics, Statistics and Computer science, University of Mysore, Mysore from Dec. 28 -30,1998 and presented a paper entitled "A multiple threedecision procedure: exponential case."
- 26. Attended International Conference on recent advances in Statistics and Probability organized jointly by ISI (Kolkata) and Bernoulli Society for mathematical statistics and probability from Dec. 29, 1997 to Jan. 1, 1998. A research paper titled "Testing homogeneity against simple ordered alternative: scale parameter case" was presented.
- 27. Visited ISI, Delhi from March 18, 1996 to March 29, 1996 as a visiting fellow to collaborate research with Dr. S.C. Kochar.
- 28. Attended a Workshop on "Statistical Inference under Non-standardConditions" and presented a research paper entitled "Simultaneous confidence bounds for the ratios of scale parameters" organized by the Department of Statistics, Panjab University, Chandigarh during January 9-12, 1996.
- 29. Attended 83rd Indian Science Congress held in Punjabi University Patiala during January 3-8, 1996 and a paper "A selection procedure for selecting least dispersive life distribution" was presented by my co-author Dr.S. K. Sharma.
- 30. Attended second International Triennial Calcutta symposium on Probability and Statistics from Dec. 30, 1994 to Jan. 2, 1995 held at Kolkata University, Kolkata and presented a paper "Simultaneous one-sided confidence intervals for the ordered pair-wise differences of exponential location parameters".
- 31. Attended 80th Indian Science Congress held at NIO, Goa from January 3, 1993 to January 8, 1993 and presented a paper titled " A class of subset selection procedures for Weibull populations".
- 32. Attended and presented a paper "Some characterizations of exponential distribution in the XIIth Annual Conference of Indian Society for Probability and Statistics (ISPS) organized by the Department of Mathematics and Statistics, Cochin University of Science and Technology, Cochin from December 9-12, 1991.
- Attended and presented a research paper titled "Selection procedures for scale parameters" in the annual ISPS conference held at IIT Bombay from December, 27-30, 1990.

AWARDS/ PRIZES

- 1. Conferred JACOB WOLFOWITZ prize for theoretical advances in Mathematical and Management Sciences for the year 2003 to my research paper titled "Simultaneous Multiple Comparisons with the Worst and Best" jointly with Dr. Neeraj Misra (I.I.T., Kanpur) and Dr. S. K. Sharma (P.U., Chandigarh) by the American Journal of Mathematical and Management Sciences. The prize consists of monetary award and an engraved certificate. This work was a part of Ph.D. Thesis of Dr. S. K. Sharma under the joint supervision of myself and Dr. Neeraj Misra.
- Awarded "SHIKSHA RATTAN PURASKAR" in July, 2007 by India International Friendship Society, New Delhi.
- Conferred "Best Citizens of India Award" in Oct., 2007 by Internationa I Publishing House, New Delhi in recognition to my:(i) teaching at school (rura I and tribal areas of Himachal Pradesh), College and University levels; (ii) Research.

INVOLEMENT IN RESEARCH SCHEMES/THRUST AREAS OF THE DEPARTMENT

- (i) Prepared and presented the proposal of our Department for the sanction of FIST Program of the DST (Govt. of India) during my term as Chairperson. Consequently, our Department got this program for a period of five years from April, 2000 to March, 2005. Under this program Rs. 31.5 lacs were sanctioned for the improvement of infrastructure facilities (computer equipments, statistical packages and books). Out of these Grants the Department could install 24 latest Pentiums and Software (SPSS, MATHEMATICA, LINGO, DINGO, SHEHZAM and MINITAB) in the computer laboratory which were urgently needed by the faculty for research & teaching, and to impart training to the students of the Department and researchers of the sister Departments in computer related courses since prior to this program the Department had only 3 Pentium-2 Machines. The Department also purchased latest books worth Rs 9 lacs out of these grants.
- (ii) Actively involved in the UGC DSA Programme sanctioned to our Department. Published more than 45 research papers in international journals of repute in the UGC DSA identified thrust area "Multiple Comparison Procedures" of the Department.
- (iii) Deputy coordinator of UGC DSA II programme sanctioned to our department.

PARTICIPATION IN REFRESHER/ORIENTATION COURSES:

- Attended UGC sponsored Orientation Course organized by the Academic Staff College, Panjab University, Chandigarh from June 30, 1993 to July 27, 1993.
- Attended UGC sponsored Refresher Course, in statistics, organized by the Academic Staff College, Gujrat University, Ahmedabad w.e.f. January 10 to January 30, 1994.

RESOURCE PERSON IN UGC SPONSORED REFRESHER COURSES

- Invited as a resource person in the UGC sponsored refresher course organized by the Department of Statistics, Panjab University, Chandigarh from March 24, 1995 to April 20,1995.
- Invited as a resource person in the UGC sponsored refresher course organized jointly by the Departments of Mathematics and Statistics, Panjab University, Chandigarh from Oct. 18, 2001 to Nov. 7, 2001.
- Invited as a resource person in the UGC sponsored refresher course organized jointly by the Departments of mathematics and Statistics, Panjab University, Chandigarh from Jan. 28, 2003 to Feb. 17, 2003.
- Invited as a resource person and delivered three lectures to the participants of the UGC sponsored refresher course organized by the Department of mathematics, Himachal Pradesh University, Simla, from Oct. 04- 24, 2004.
- Invited as a resource person and delivered two lectures to the participants of the UGC sponsored refresher course organized by the Department of mathematics, Guru Nanak Dev University, Amritsar, from May 04- 24, 2005.
- Invited as a resource person in the UGC sponsored refresher course organized jointly by the Departments of mathematics and Statistics, Panjab University, Chandigarh in 2010.

PARTICIPATION IN INHOUSE TRAINING PROGRAMS:

Acted as a resource person to impart training to the professionals of slster departments and the researchers/Professionals of neighboring institutes (like Semi-Conductors Ltd. (Mohali), Ranbaxy (Mohali), BEL (Panchkula), PGIMER (Chandigarh), SASE (Him Parishar, (Manali)), GMCH (Chandigarh)) on statistical methodology for the analyses and interpretations of data using software, during in-house training programs organized by our Department at various time points in the past.

(Amar Nath Gill)

Dr. Satish K. Kapoor

M.A. (History), M.A. (Area Studies: South Asia), Ph.D. EX- BRITISH COUNCIL SCHOLAR

Date of Birth:

28 / 06/ 1950

Sex:

Male

Permanent Address: 5-Brij Nagar,

Phone:

Jalandhar City-144008

9463997330

E-mail:

infinityami50@gmail.com

Educational Qualifications:

Ph.D.

1981 Ph.D., Punjab University, Chandigarh.

M.A. (Area Studies: South Asia), University of London.

M.A.

1970 M.A. (History), Punjab University, Chandigarh. (Gold Medalist and Record Holder)

Research Dissertations:

i) 'Vivekananda at the Chicago Parliament', Master's Dissertation, University of London, 1975.

ii) 'Swami Vivekananda: A study of His Sojourns and Impact on the West (1893-96), Doctoral Dissertation, Punjab University, 1981.

Appointments/Positions already held :

(2012-2015) Registrar, DAV University, Jalandhar City.

(2008-2012) Local Secretary, Dayanand Institutions, Solapur

(Maharashtra), comprising of four senior Colleges, two junior Colleges and three Schools. Being run by DAV College Managing Committee, New

Delhi.

(2005-2008) Principal, Lyallpur Khalsa College, (LKC), Jalandhar City.

(2004-2008) Coordinator, Indira Gandhi National Open University, Centre 2212.

(1970-2005) P.G. Lecturer in History, Lyallpur Khalsa College, Jalandhar City.

(2000-2008) Director, Centre of Historical Studies, Lyallpur

Khalsa College, Jalandhar City.

Postgraduate Teaching experience: 35 years

Research experience: 40 years

IN	TERNATIONAL EXPOSURE AND DISTINCTIONS
1	Awarded British Council Scholarship in History to study at School of Oriental and African Studies, University of London,1974-1975.
2	Represented India at the 2 nd Assembly of World Religions held at San Francisco (USA), 1990.
3	Guest of Honour at Media Persons' Seminar at International Conference on 21st Century and the present period of Moral and Social reconstruction, organized by Brahmakumaris World Headquarters, Mount Abu (Rajasthan), February 6-9th, 1998.
4	Associate Subject Editor and Substance Editor, Encyclopedia of Hinduism (11 Vols) An International Project of India Heritage Research Foundation-USA
5	Nominated by University Grants Commission for a cultural visit to China under Indo-Chinese Cultural Exchange Programme.
3	Awarded Certificate of Recognition by the Canadian M.P. of Mississauga-Brampton area on behalf of the House of Commons, 2004.
7	Adjudged 'Star of the Week' by Punjab Star, Canadian newspaper weekly, Sep 28- Oct 4, 2004
3	Conferred the award of 'Ambassador for Peace' by Universal Peace Foundation and Interreligious and International Federation for World Peace at an International Conference on 'Our Common Legacy of Faith, Family and Peace', March 9, 2006.
	Certificate of Appreciation from Elaine Moore, Regional Councillor, Corporation of the City of Brampton.CA, Canada, and Guest of Honour at Peel Women Health Social Services, 2012
AV	/ARDS / HONOURS
	Awarded Gold Medal by Punjab University, Chandigarh, for standing first in M.A. (History) and creating a new



- 1	record, 1970.
1	2 Awarded Roll of Honour and Gold Medal by D.A.V. College, Jalandhar, 1971.
1	Adjudged Best Citizen, Jalandhar, by Jaycees Club and publicly Honoured, 1976.
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+	- 1-1-19-19-19-19-19-19-19-19-19-19-19-19-
H	The state of the s
	Rotary Club-MIDC-(Solapur).
L	7 Life Time Education Achievement Award, 2006, Health and Education Development Association, New Deli
	Shared dais as a Keynote Speaker on Swami Vivekananda, with Punjab Governor Shri O. P. Ver ma, a Public Function organized by Ramakrishna Mission, Chandigarh, April 2, 2004.
	9 Honoured by Punjab Governor Shri S. F. Rodrigues at State-level Republic day function in Jalan her Conformation on the field of Education, 2005.
	Honoured by Ex-Governor, Karnataka, Shri T. N. Chaturvedi with the presentation of Shaheed Ra_pal D.A.V. Literary Award, 2009.
	11 Honoured by Solapur Vidyapeeth Itihas Parishad, Solapur University, April 2009.
	12 Received Soham Samarkam Award, 2010 from Bharatiya Vidya Bhavan, Mumbai, for Best Contri ■outlor Prose to Bhavan's Journal.
L	Honoured by social and religious organizations in Maharashtra including Arya Samaj, Solapur, March 2009; Gurunath Baba Dandavate Math, Solapur, December 20,2008; Kumar Swami Math, Solapur, August 1: 2011; Varkari Sampradaya, Pune, September 16,2011 etc.
	NTERNATIONAL ADVANCE LEARNING SOCIETY EXPERIENCE
1	Initiated into advanced research in 1974 by Prof. Kenneth A. Ballhatchet, Director, South Asian Studies, School Oriental and African Studies, University of London.
2	Member of the educational delegation of Principals who visited East African Countries- Ethiopia and Ker∎ya In 2006.
IN	TERNATIONAL LINKAGE
1	International Religious Foundation, New York, 1990.
2	International Federation for World Peace, New York, 1990.
3	Inter-Religious Federation for World Peace, 1990.
4	Freedom, Justice and Peace Society, Hillsdale, New Jersey, U.S.A, 1990.
5	South Asian News, Toronto, Calagary, Edmonton (weekly columnist from January – December 2016)
	EMBERSHIP OF UNIVERSITY AND PROFESSIONAL BODIES
1	Fellow (Sonotor) Core Name ProfessionAL Budles
_	Fellow (Senator), Guru Nanak Dev University, Amritsar, 1978-80.
3	Member, Board of Studies in History, Guru Nanak Dev University, Amritsar, 1985-87.
	Member, Co-ordination Committee of all the three Universities of Punjab to prepare Syllabi of Anclent Indian History and Culture, 1987-88.
4	Member, Punjab State University Text Book Board, 1993-96.
5	Member, Guru Nanak Dev University, Amritsar, Youth Welfare Advisory Committee, 2008-2008.
6	Member, Guru Nanak Dev University, Amritsar, Academic Council, 2006-2007.
7	President, Sports Committee (Men), Guru Nanak Dev University, Amritsar, 2006-2007.
8	Member , College Development Council, Guru Nanak Dev University, Amritsar, , 2006-2008.
9	Member, Punjab History Congress, Punjabi University, Patiala (many Sessions).
10	Member, Indian History Congress (63rd Session).
11	Member- Secretary, Governing Body, Board of Management and Academic Council of DAV University, Jalandhar (2013-15)
12	Member, Board of Management, Mehr Chand Polytechnic College – Community College under NVEQF, Jalandhar(2014-2015)
13	Member, School Board, School of Social Sciences, Central University, Bathinda
14	Assessor, NAAC, Bangalore, for assessment and accreditation of Colleges in India
	TUTIONS SERVED AS RESOURCE PERSON
	Lal Bahadur Shastri National Academy of Administration, Missouri.
	Punjab Police Academy, Phillaur.
	In-Service Training Centre (for Teachers), Jalandhar.
	U.G.C. sponsored Centers for Competitive Examinations at Guru Nanak Dev University, Amritsar and D.A.V.College, Jalandhar.
	Indira Gandhi National Open University. Ex-Coordinator Centre 2212.
	Department of Laws, Guru Nanak Dev University, Amritsar. Regional Centre, Jalandhar.
	Cooperative Bank Staff Training Institute, Jalandhar.
	D.A.V. College, Amritsar.

BOOKS PUBLISHED

S.N	Title	Publisher
1	Cultural Contact and Fusion: Swami Vivekananda in the West (1893-96). With a Foreword by Dr. Homer E. Socolofsky of Kansas State University, Kansas (U.S.A.), 1997.	ABS Publications, Jalandhar, ISBN -81-7072 -0141
2	The Khalsa: Substratum, Substance and Significance, 2001.	Centre of Historical Studies, Lyallpur Khalsa

		College, Jalandhar City ISBN 978-81-903603-8-8
3	The Varkaris: An Introduction, 2010.	Centre for Preservation of Heritage of Maharasht ra, D.B.F. Dayanand College of Arts and Science, Solapur, ISBN 81-903603-5-3
4	Swami Vivekananda Ajachya Sandarbhat (Marathi) Translated by Sushma Kamik, 2012.	Vivekananda Kendra Marathi Prakas h⇒an Vibhag. Pune.
5	Hinduism and Art: The Hermeneutics of Devotion, 2012.	Centre for Preservation of Heritage of Maharashtra, Solapur
6	Lord Siva and Saiva Sects, 2012.	Centre for Preservation of Heritage of Maharashtra, Solapur
7	Hinduism: The Faith Eternal With a Foreword by Dr. K. L. Seshagiri Rao, Professor Emeritus, University of Virginia.2015	Advaita Ashrama Kolkata. ISBN 978-81-7505- 441-7

CHAPTERS IN BOOKS

A. University Publications

1	'Where Spiritual Ambrosia Flows: Explicating the Spirit and Form of the Golden Temple' 1999. Pp 160-170.	Param Bakhshlsh Singh et al (Eds), Golden Temple, Punjabi University, Patiala.	ISBN: 81-7-380-569-5
2	'Holiness of Harimandir Sahib' 1999. Pp 204-211.	Param Bakhshish Singh et al (Eds) Golden Temple, Punjabi University, Patiala.	ISBN: 81-7380-569-5
3	'The Hero and the Ideal: Swami Vivekananda's Views on Guru Gobind Singh', 2000. Pp 116-126.	Madanjit Kaur (ed), Guru Gobind Singh and Creation of the Khalsa, Guru Nanak Dev University, Amritsar. Published in Diamond Jubilee Souvenir of Gurudwara Singh Sabha dedicated to Khalsa and Guru Gobind Singh Ji, Gurudwara Sri Guru Singh Sabha, Ahmedabad.	ISBN: 81-7770-000-6
4	'Maharaja Ranjit Singh: An Appraisal' 2001. Pp 140-149.	S. P.Singh and J.S. Sabar (eds) Rule of Maharaja Ranjit Singh: Nature and Relevance, Guru Nanak Dev University, Amritsar.	ISBN: 81-7 770-034-0

B. Chapters in Scholarly Works

5	74.	Darshan Singh (Ed), Glimpses of Indian History, Lyall Book Depot, Ludhiana.	
6	'The Brahmin Contribution to Indian Thought and Culture' 1998. Pp 11-20.	The Brahmins, Brahmin Kalyan Parishad, Jalandhar.	
7	'Vivekananda's Perceptions of Indian Women', 2000. Pp 149-162.	C.M. Aggarwal(Ed.), Nari: Facets of Indian Womanhood, Vol. I, Indian Publishers Distributors, Delhi.	ISBN: 81-7341-III-5
8	Swami Vivekananda and the American Women: A Study of their Contacts, 2001. Pp 150-177.	C.M.Agarwal(Ed.)Indian Women, Vol.II, Indian Publishers Distributors, Delhi.	ISBN: 81-7341-212-X (II)
9	'The Western Perspectives on Hinduism' 2002. Pp 66-79.	Kiran Pawar and Sanjay Subodh (Eds.), Studies in Indian History, ABS Publications, Jalandhar.	ISBN: 81-7072-080-X
10	'The Equestrian Tradition of India' 2003. Pp 151-162.	C.M.Aggarwal (Ed.), Sanskriti: Glimpses of Indian Culture, Vol. II, Indian Publishers Distributors. New Delhi,	ISBN: 81-7341-320-7
11	'Charkha: The Spinning Wheel in Punjabi Culture, Folk-lore and Indian History' 2003. Pp 63-79.	C.M.Aggarwal (Ed), Sanskriti: Glimpses of Indian Culture, Vol. II, Indian Publishers Distributors. New Delhi.	ISBN: 81-7341-321-5
12	'Hinduism and the Girl Child', 2005.	C.M. Aggarwal(ed.) Pratibimb: Images of Indian Womanhood, Delhi, Indian Publishers Distributors. New Delhi.	ISBN: 81-7341-372-X
3	'Hindu Women and Religion: Some Observations', 2005. Pp 332-337	C.M. Aggrawal (ed.) Pratibimb: Images of Indian Womanhood, Vol.III, Indian Publishers Distributors. New Delhi.	ISBN: 81-7341-323-8
4	'Swami Vivekananda on Guru Gobind Singh', 2011. Pp. 89-98	Joginder Singh Jogi (ed), Guru Gobind Singh: A Great Nation Builder. Takht Sri Harimander Ji, Patna Sahib.	
5		Rajendra Kumar Prashar(ed.), 'Yugyugin Jalandhar,Bharatiya Itihas Sankalan Samiti, Punjab	
3		Joy of Spini vality- in the light of Sri Ramakrishna	ISBN 978-81-7823-692-

		s life and message. A Vedanta Kesari Presentation. Sri Ramakrishna Math, Mylapore, Chennai.	
17	Light of Swami Vivekananda's Ideas',2013.Pp.306-339	Vivekananda As The Tuming Point. The Rise of a New Spiritual Wave (Ed. Swami Shuddhidananda). Swami Vivekananda's 150 th Birth Anniversary Publication. Advaita Ashrama, Kolkata. Note: The book was released on January 18, 2013, by Sh. Pranab Mukherjee, President of India	ISBN 978—81-7505-372-
18	'Swami Vivekananda's Guidelines on Living', 2014. Pp.270-81	Swami Atmashraddhananda(Editor and Compiler), Swami Vivekananda. The Charm of His Personality and Message, Sri Ramakrishna Math, Mylapore, Chennai	ISBN 978—81-7883-575- 4
19	'Speaking to God: An Understanding of the Practice of Prayer',2014. Chapter 33, pp.380-86	Manifesting Inherent Perfection Within-Writings on Education for Complete Self Development By Eminent Contributors. Vedanta Kesari Centenary Publication. Sri Ramakrishna Math, Mylapore, Chennai.	ISBN 978- ≈ 81-7883-590-7
20	' Virchand Raghavji Gandhi : Bhartiyata Ke Udghoshak Jaina Vidvana ke Sashakta Vyaktitatva Ka Mulyanankan, 2015, Pp 151-161	Gandhi before Gandhi- Virchand Gandhi By Dr Bipin Doshi and Priti Shah. Translated by Mahendra Kumar Jain Mast. Published by Shri Atma Vallabha Jaina Smaraka Shishkshan Nidhi, Delhi. Distributor: Motilal Banarasi Dass	ISBN 978—81-208-3990- 8
11	'Missionary Work in Granite: Swami Vivekananda in the West', 2016,Pp. 105-125	Relevance of Swami Vivekananda in Contemporary India, edited by Krishan Chand, Centre for Research in Rural and Industrial Development(CRRID).	ISBN 978 -85835-82-9

INTERNATIONAL PROJECT: ENCYCLOPEDIA OF HINDUISM, 11 VOLUMES (India Heritage Research Foundation, USA).COMPLETED Edited and substance edited about seven hundred entries

WRITTEN CONTRIBUTION TO ENCYCLOPEDIA OF HINDUISM

1	Alcott, Amos Bronson, Vol-1, A, pp.	Encyclopedia of Hinduism (India Heritage Research	ISBN 978-81-291-1588-1
2	181-182 - Apamarga	Foundation, USA in Association with Rupa and Co. New Delhi. Encyclopedia of Hinduism (India Heritage Research	ISBN 978-81-291-1588-1
1000	Vol-1, A, pp. 330-331	Foundation, USA in Association with Rupa and Co. New Delhi.	
3 Aparigraha Vol-I, A, pp. 332-333		Encyclopedia of Hinduism (India Heritage Research Foundation, USA in Association with Rupa and Co. New Delhi	ISBN 978-81-291-1588-1
4	Aushadhi Vol-II, A-B, pp. 42-44.	Encyclopedia of Hinduism (India Heritage Research Foundation, USA in Association with Rupa and Co. New Delhi.	ISBN 978-81-291-1588-1
5	Balsakhi Vol-II, A-B, pp. 98-100	Encyclopedia of Hinduism (India Heritage Research Foundation, USA in Association with Rupa and Co. New Delhi.	ISBN 978-81-291-1588-1
6	Bakula Vol-III, A-B, p. 101	Encyclopedia of Hinduism (India Heritage Research Foundation, USA in Association with Rupa and Co. New Delhi.	ISBN 978-81-291-1588-1
7	Banaras Hindu University Vol-III, A-B, pp. 117-118	Encyclopedia of Hinduism (India Heritage Research Foundation, USA in Association with Rupa and Co. New Delhi.	ISBN 978-81-291-1588-1
8	Bhagat Singh Vol-III, A-B, pp. 175-176	Encyclopedia of Hindulsm (India Heritage Research Foundation, USA in Association with Rupa and Co. New Delhi.	ISBN 978-81-291-1588-
9	Bhudan Movement Vol-III, A-B, pp. 335-336	Encyclopedia of Hinduism (India Heritage Research Foundation, USA in Association with Rupa and Co. New Delhi.	ISBN 978-81-291-1588-1
10	Buddha, Gautama Vol-III, A-B, pp. 457-461	Encyclopedia of Hinduism (India Heritage Research Foundation, USA in Association with Rupa and Co. New Delhi.	ISBN 978-81-291-1588-1
11	Carkha Vol-III, C-D, pp. 70-71	Encyclopedia of Hinduism (India Heritage Research Foundation, USA in Association with Rupa and Co. New Delhi.	ISBN 978-81-291-1588-1
12	Deussen, Paul Vol-III, C-D, pp. 355.	Encyclopedia of Hinduism (India Heritage Research Foundation, USA in Association with Rupa and Co. New Delhi.	ISBN 978-81-291-1588-1
3	Devi Talab Vol-III, C-D, p. 401	Encyclopedia of Hinduism (India Heritage Research Foundation, USA in Association with Rupa and Co. New Delhi.	ISBN 978-81-291-1588-1
4	Divine Life Society Vol-III, C-D, pp. 495-496	Encyclopedia of Hinduism (India Heritage Research Foundation, USA in Association with Rupa and Co. New Delhi.	ISBN 978-81-291-1588-1
5	Duhita Vol-III, C-D, pp. 533-534	Encyclopedia of Hinduism (India Heritage Research Foundation, USA in Association with Rupa and Co. New Delhi.	ISBN 978-81-291-1588-1
6	Emerson, Ralph Waldo Vol-IV, E-H, p. 37.	Encyclopedia of Hinduism (India Heritage Research Foundation, USA in Association with Rupa and Co. New Delhi.	ISBN 978-81-291-1588-1
7	Harivallabha Sangeet Sammelan Vol-IV, E-H, pp. 448-449.	Encyclopedia of Hinduism (India Heritage Research Foundation, USA in Association with Rupa and Co. New Delhi.	ISBN 978-81-291-1588-1

1	8 Hindu Women and Religion Vol-IV, E-H, pp. 612-614.	Encyclopedia of Hinduism (India Heritage Research Foundation, USA in Association with Rupa and Co. New Delhi.	ISBN 9 7 ≥ 81-201-1588
1	9 Holi Vol-V, H-I-J-K, pp. 106-108.	Encyclopedia of Hinduism (India Heritage Research Foundation, USA in Association with Rupa and Co. New Delhi.	ISBN 9 7-8-81-291-1588
20	Jalandhar Vol-V, H-I-J-K, p. 250.	Encyclopedia of Hinduism (India Heritage Research Foundation, USA in Association with Rupa and Co. New Delhi.	ISBN 978-81-201-1688-
21		Encyclopedia of Hinduism (India Heritage Research Foundation, USA in Association with Rupa and Co. New Delhi.	ISBN 978-81-201-1568-
22	Kanya Maha Vidyalaya Vol-V, H-K, pp. 479-480.	Encyclopedia of Hinduism (India Heritage Research Foundation, USA in Association with Rupa and Co. New Delhi.	ISBN 978-81-201-1588-
23	Karva Chautha Vol-V, H-K, p. 535.	Encyclopedia of Hinduism (India Heritage Research Foundation, USA in Association with Rupa and Co. New Delhi.	ISBN 978-81-291-1688-
24	Koh-i-nur Vol-VI, K-L-M, pp. 84-85.	Encyclopedia of Hindulsm (India Heritage Research Foundation, USA in Association with Rupa and Co. New Delhi.	ISBN 978-81-291-1588-
25	Kusa Voi-VI, K-L-M, p. 203.	Encyclopedia of Hinduism (India Heritage Research Foundation, USA in Association with Rupa and Co. New Delhi.	ISBN 978-81-291-1588-1
26	Kutaja Vol-VI, K-L-M, pp. 212-213.	Encyclopedia of Hinduism (India Heritage Research Foundation, USA in Association with Rupa and Co. New Delhi.	ISBN 978-81-291-1588-1
7	Lala Jagat Narain Vol-VI, K-L-M, pp. 239-240.	Encyclopedia of Hinduism (India Heritage Research Foundation, USA in Association with Rupa and Co. New Delhi.	ISBN 978-81-291-1588-1
8	Lavanga Vol-VI, K-L-M, pp. 258-259.	Encyclopedia of Hinduism (India Heritage Research Foundation, USA in Association with Rupa and Co. New Delhi.	ISBN 97 8-81-291-1588-1
9	Mina Sampradaya Vol-VII, M-P, p. 163.	Encyclopedia of Hinduism (India Heritage Research Foundation, USA in Association with Rupa and Co. New Delhi.	ISBN 97 8-81-291-1588-1
)	Motherhood Vol-VII, M-P, p. 200.	Encyclopedia of Hinduism (India Heritage Research Foundation, USA in Association with Rupa and Co. New Delhi.	ISBN 97 8-81-291-1688-1
	Nagarkar, Balwant Bhau Vol-VII, M-P, pp. 315-316.	Encyclopedia of Hinduism (India Heritage Research Foundation, USA in Association with Rupa and Co. New Delhi.	ISBN 97-8-81-291-1588-1
	Neem (Nimb) Vol-VII, M-P, p. 443.	Encyclopedia of Hinduism (India Heritage Research Foundation, USA in Association with Rupa and Co. New Delhi.	ISBN 97-8-81-291-1588-1
	Osho Vol-VII, M-P, pp. 542-544.	Encyclopedia of Hinduism (India Heritage Research Foundation, USA in Association with Rupa and Co. New Delhi.	ISBN 978-81-291-1588-1
	Pancamukhi Siva Vol-VIII, P-R, p. 19.	Encyclopedia of Hindulsm (India Heritage Research Foundation, USA in Association with Rupa and Co. New Delhi.	ISBN 978-81-291-1588-1
	Paropakara Vol-VIII, P-R, p. 90.	Encyclopedia of Hinduism (India Heritage Research Foundation, USA in Association with Rupa and Co. New Delhi.	ISBN 978-81-291-1588-1
	Pavanar Vol-VIII, P-R, pp. 126-127.	Encyclopedia of Hinduism (India Heritage Research Foundation, USA in Association with Rupa and Co. New Delhi.	ISBN 978-81-291-1588-1
	Prem Chand Vol-VIII, P-R, pp. 276-277.	Encyclopedia of Hinduism (India Heritage Research Foundation, USA in Association with Rupa and Co New Delhi.	ISBN 978-81-291-1588-1
	Punjab Vol-VIII, P-R, pp. 312-314.	Encyclopedia of Hinduism (India Heritage Research Foundation, USA in Association with Rupa and Co. New Delhi.	ISBN 978-81-291-1588-1
	Purdah in Hinduism Vol-VIII, P-R, pp. 328-329	Encyclopedia of Hinduism (India Heritage Research Foundation, USA in Association with Rupa and Co. New Delhi.	ISBN 978-01-291-1588-1
1	Ranjit Singh Vol-VIII, P-R, pp. 528-530.	Encyclopedia of Hindulsm (India Heritage Research Foundation, USA in Association with Rupa and Co. New Delhi.	ISBN 978-81-291-1588-1
F	Rudraksha /ol-VIII, P-R, pp. 619-620.	Encyclopedia of Hinduism (India Heritage Research Foundation, USA in Association with Rupa and Co. New Delhi.	ISBN 978-81-291-1588-1
1 8	Sacred Trees /ol-IX, S-, pp. 16-18	Encyclopedia of Hinduism (India Heritage Research Foundation, USA in Association with Rups and Co. New Delhi.	ISBN 978-81-291-1588-1
	atsanga 'ol-IX, S-, pp. 324-325.	Encyclopedia of Hinduism (India Heritage Research Foundation, USA in Association with Rupa and Co. New Delhi.	ISBN 978-81-291-1588-1
S	hambhavi Mudra ol-IX, S-, pp. 131-132.	Encyclopedia of Hinduism (India Heritage Research Foundation, USA in Association with Rupa and Co. New Delhi.	ISBN 978-81-291-1588-1
S	ikh Marriage Customs ol-IX, S-, pp. 452-455.	Focyclopedia of Hinduism (India Heritage Research Foundation, USA in Association with Rupa and Co. New Delhi.	ISBN 978-81-291-1588-1
T	noreau, Henry David DI-X, S-T, p. 478.	Encyclopedia of Hinduism (India Heritage Research Foundation, USA in Association with Rupa and Co. New Delhi.	ISBN 978-81-291-1588-1
Ti		Encyclopedia of Hinduism (India Heritage Research Foundation, USA in Association with Rupa and Co. New Delhi	ISBN 978-81-291-1588-1
Til		Encyclopedia of Hinduism (India Heritage Research Foundation, USA in Association with Rupa and Co. New Delhi.	ISBN 978-81-291-1588-1
Viv	/eka I-XI, U-Z, p. 428.	Encyclopedia of Hinduism (India Heritage Research Foundation, USA in Association with Rupa and Co. New Delhi.	ISBN 978-81-291-1588-1
WH	nitman, Walt I-XI, U-Z, pp. 489-490.	Encyclopedia of Hindulsm' (India Heritage Research	ISBN 978-81-291-1588-1

- Citations in Encyclopedia of Hinduism 11 Volumes.

 (India Heritage Research Foundation, USA in Association with Rupa and Co. New Delhi.)

 British-Hindu Orientalism, Vol-II. A, B,pp. 432-434. (Two references in Bibliography).
 - Paropakara, Vol-VIII, P-R, p. 90.
 - Siddhis, Vol-IX, S, pp. 446-448. Tota Puri. Vol-X. S-T, p. 553.

CONTRIBUTION TO ENCYCLOPEDIA OF SIKHISM, 4 VOLUMES

COMMISSION TO BITCH	CHOI MINIT	Or Diskinding T T OBOTIZES	
'Swami Tota Puri' , 1998		Encyclopedia of Sikhism, Volume 3 (Punjabi university, Patiala).	ISBN 81-738-0-530-X

ARTICLES IN GOVERNMENT PUBLICATIONS

1	SAGA of Freedom Struggle in States: Punjab (Translated versions published in Milap (Urdu daily Jalandhar), August 15: Hind Samachar (Urdu daily, Jalandhar) August 15; Rozana Pahu Phuti (Punjabi Daily, Patiala) August 17; Creative News; August 24, Navin Saver (Punjabi weekly, Bilga) September 8, 1998).	Feature article on the occasion of 50 Years of Indian Independence	Punjab Press Information Bureau, Government of India Ref. GDB/JZ/EP/S=T/DR/KKT 55-157/SF-122/ 07-07-1998.
2	'The Khalsa of Guru Gobind Singh', April 12, 1999. (www. nic.in /India-image/pib).	Feature article on the occasion of Tercentenary Celebration of the Khalsa	A feature of Press Information Bureau, Government of India.
3	'The Khalsa of Guru Gobind Singh', Vol 50, No. 1, January-March 2000.	Feature article	Advance, Department of Public Relations, Punjab.
4	'Freedom Struggle in Punjab', Vol. 52, No. 3, July- September 2002.	Feature article	Advance, Departrr⇒ent of Public Relations, Punjab.

Published Papers in Journals

S.N	Title	Journal	ISSN/ISIBN No.
1	'The Motivation Behind Vivekananda's Wanderjahre in America', July 1981.	Indian Journal of American Studies, Hyderabad	ISSN: 0\(\infty\)19-5030
2	'Visage and Vision of Guru Nanak Dev : As Viewed by Swami Vivekananda' February 1982,	Journal of Sikh Studies, Guru Nanak Dev University, Amritsar.	ISSN-09 72-3765
3	'Dilemmas Before Christianity in the 19th Century: The Context of Swami Vivekananda's Itinerary in the West', Spring-Autumn 1982.	Journal of Religious Studies, Punjabi University, Patiala.	ISSN-00-47-2735
4	'The Equestrian Tradition of India', November 15- 21, 1993 (earlier published on the occasion of Punjab Horse Show, 1982).	Special souvenir of Equestrian Federation of India.	
5	'God Man and Society', July - December 1984	The Punjab University Alumunus, Chandigarh	
6	'Hero and the Ideal: Swaml Vivekananda on Guru Gobind Singh,' August 1985.	Journal of Sikh Studies.	ISSN 09 72-3765
7	'Swami Vivekananda: Missionary, Saint or Prophet?' March 1987.	Prabuddha Bharata,Kolkata	ISSN-00 32-6178
8	'The Western Perspectives on Hinduism: A Study of Early British Indologists,' Spring 1987.	Journal of Religious Studies.	ISSN-00-47-2735
9	'Abracadabra of Rudraksha', Vol. I, No. I, 1987.	Panchnad Research Journal, Chandigarh	4
10	'The Why of the Holiness of Harmandir', February 1988.	Journal of Sikh Studies (Special Commemorative volume).	ISSN-0972-3765
11	'Blind Irreverence or Rational Acceptance: Nehru's Approach to Religion', October 1989.	Maharishi Dayananda University Research Journal (special commemorative Volume), Rohtak	
2	'Swami Vivekananda and the American Women : A Study of Their Contacts (1893-96)', April 1990.	Maharishi Dayananda University Research Journal.	F
3	'The Relevance of Swami Vivekananda', July 1990.	Prabuddha Bharata	ISSN-0032-6178
4	'Swami Vivekananda on Guru Nanak Dev', 1991.	The Sikh Courier, London.	ISSN-0037-511X
5	'Hindu Ideal of Service', November 1991.	Prabuddha Bharata.	ISSN-0032-6178
3	'Vivekananda's Perceptions of Indian Women', October 1992.	Prabuddha Bharata.	ISSN-0032-6178
	'Swami Vivekananda's Impact on the West: Some Dimensions', September, 1993.	Prabuddha Bharata.	ISSN-032-6178
	'Swami Vivekananda in the West', Part II, October 1993.	Prabuddha Bharata.	ISSN-032-6178
	'Swami Vivekananda in the U.S.: Motivations', June	Prabuddha Bharata.	ISSN-032-6178

		1994.		
	20			
Y	20	'Meditation: The Way to Inner Health', Vol. I, November, 1994.	D.A.V. Health News (A Complete Health Journal), DAV Ayurvedic	
	21	'Plague and Ayurveda', May 1995.	College, Jalandhar. D.A.V. Health News	
	22	'Apamarga: The Wonder Plant', February 1995 (also Published in Aryan Heritage, June 1995.	D.A.V. Health News.	
	23	'Charkha: The Spinning Wheel In Folklore and History', Vol IV, New Series, 1996.	Journal of Regional History, Guru Nanak Dev University, Amritsar.	
- 1	24	'Indian Renaissance', January 1997.	Prabuddha Bharata.	ISSN-032-8178
	25	'Religion and Creation: Ecological and Developmental Concerns in Hinduism', January 1997.	Bulletin of Christian Institute of Religious Studies, Batala.	ISSN-0034-395
Ī	26	'Indian Approach to Drugs', Spring Issue, 1997.	Journal of Religious Studies.	ISSN-0047-2735
Γ	27	'Ecological Concerns in Hinduism', January 1998.	Prabuddha Bharata.	ISSN-032-6178
L	28	'A Forgotten Hero of India's Freedom Struggle : DrArur Singh', April 1998.	Heritage, Bulletin of the History Sub Committee of Desh BhagatYadgar	
	29	'Education for a New Society', Vol-28, No-10, April 1998.	, The World Renewal, Mount Abu.	
	30	'The Meaning and Dimensions of the Khalsa' Spring-Autumn 1998.	Journal of Religious Studies.	ISSN-0047-2735
	31	'Vivekananda on Guru Nanak Dev', November 1998.	The Sikh Review, Kolkata.	ISSNO 037-5128
3.	1	Swami Vivekananda and the American Women: A Study of their contacts (1893 - 96)', January 1999.	Prabuddha Bharata.	ISSN-O032-6178
33	S	Indian Renaissance: Revivalism, Reformation and Syncretism', Vol. 26, Jan/Feb 1999 (Noticed in MLBD Newsletter May 1999).	Dharma World.	ISSN-O387-5970
34	1	Sir William Jones, Father of Oriental Research', Vol. 104, May 1999.	Prabuddha Bharata.	ISSN-O 032-6178
35	J	Education for a Better Society', Vol. 37, No 25, une 21, 1999.	University News, Association of Indian Universities, New Delhi	ISSN- O566-2257
36	11	nterpreting the Creation of Khalsa', Vol. 47, July 999.	The Sikh Review,Kolkata	ISSN0O37-5128
37		Valt Whitman's India', August 1999.	The Vedanta Kesari, Chennai	ISSN-0042-2983
38		he Buddha and His Message', May 2000.	The Vedanta Kesari.	ISSN-0042-2983
39	Vi	mos Bronson Alcott: An American with a Hindu sion', Vol. 104, November, 1999.	Prabuddha Bharata.	ISSN-032-6178
40	10	induism During the Previous Millennium', Vol. 5, January 2000.	Prabuddha Bharata.	ISSN-032-6178
11	50	acred Trees of the Hindus: Mythological and cial Linkages', Vol. 106, July 2001.	Prabuddha Bharata.	ISSN-032-6178
	Se	vami Ishwar Das: A Soul of Puissance', July- ptember 2003.	Guru Avinashi, Jalandhar City,	
3		oreau and Indian Philosophy', October, 2003.	The Harbinger (Inaugural Issue), PG Department of English, LKC, Jalandhar City.	
4	_ XLI	me Observations on Purdah in Hinduism', Vol XLII pts I-II, June- December 2003-2004.	Vishveshvaranand Indological Journal, Hoshiarpur.	ISSN-0507-1410
3	Jan	use of Tila in Hindu Rites and Ceremonies', uary, 2005.	Ayurveda for Total Health,DAV Ayurvedic College, Jalandhar	
	Asp	an Drug Tradition: Spiritual and Esoteric ects', February, 2005. os Bronson Alcott: A Transcendentalist Par	Ayurveda for Total Health.	
	EXC	Sacred Grass Kusha', Vol.50, No.6, March	The Harbinger.	ICCN 0000 c
-	2005	Use of Lavanga in Indian Tradition', April		ISSN 0022-8036
	2005		Ayurveda for Total Health. Prabuddha Bharata.	ISSN 022 2472
	May :	2005.	Ayurveda for Total Health.	ISSN-032-6178
	'Kosh	- 4	Ayurveda for Total Health.	
	Dogle	o , August, 2005.		

* , - +*-

		74	
54	'The Margosa Tree- Folklore and Uses', April 2006		ISSN 2348-6910
55	'Ayurveda and Plague', Vol. I: 1, April 2006.	DAV's Ayurveda for Holistic Health.	ISSN 2348-6910
56	'The Use of Apamarga in Indian Tradition', Vol. I: 3 October 2006.	, DAV's Ayurveda for Holistic Health.	ISSN 2348-6910
57		Kalyana-Kalpataru.	ISSN 0◯22-8038
58	'Palasha: The Brahmavriksha of the Puranas', December 2006.	DAV's Ayurveda for Holistic Health.	ISSN 2348-8910
59		DAV's Ayurveda for Holistic Health.	ISSN 23348-8910
60	'Sikh Marriage Customs: An Overview', Vol. XXXI No. 3, 2007.	Journal of Sikh Studies.	ISSN-0972-3765
61	'Mother Earth, Truant man', Vol. I May 2007.	DAV's Ayurveda for Holistic Health.	ISSN 23348-6910
62	'Light Am I', Vol.1 September 4, 2007. Also published in Bhavan's Journal.	DAV's Ayurveda for Holistic Health.	ISSN 2348-6910 ISSN-0006-0518
63	'Bakula', Vol. I, May 5, 2007.	DAV's Ayurveda for Holistic Health.	ISSN 23=48-6910
64	'What is Meditation?' Vol. 1:6, January 2008.	DAV's Ayurveda for Holistic Health.	ISSN 23=48-6910
65	'Kirtan, The Soulful Melody', Vol 56:5, No. 653, May 2008.	The Sikh Review.	ISSN 00-37-5128
66	'Gestalt of Miri-Piri Ideal', Vol 56:8, No. 656, August 2008.	The Sikh Review.	ISSN 00-37-5128
67	'Guru Gobind Singh: The Final Phase', Vol 56:9, No. 657, September, 2008.	The Sikh Review.	ISSN 00-37-5128
68	'Sri Guru Granth Sahib: Symphonic Spiritual Ambrosia', Vol. 56:12, No. 660, December, 2008.	The Sikh Review.	ISSN 00-37-5128
69	'Guru Gobind Singh: The Final Phase', Vol, 33:1, January, 2009.	Gobind Prakash.	
70	'Advent of Swami Dayananda: A Historical Necessity', Vol. 26, No. 5, March 2009.	Aryan Heritage, New Delhi.	DNI NO COOSIST
71	'Rama and Rama Nama', Vol. 55, No. 17, April 15, 2009.	Bhavan's Journal.	RNI NO 6065/57
72	'Mysticism and the Saints of Maharashtra', Vol. 55, No. 19, May 15, 2009.	Bhavan's Journal.	RNI NO : 6065/57
73	'Prayer: A Dialogue with the Divine', Vol. 55, No. 22, June 30, 2009.	Bhavan's Journal.	RNI NO 6065/57
74	'Purdah in Hinduism', Vol. 56, No. 2, August 31, 2009.	Bhavan's Journal.	RNI NO 6065/57
75	'Music at the Core of Worship', Vol. 56, No. 03, September 15, 2009.	Bhavan's Journal.	RNI NO 6065/57
76	'Art and Architecture in the Hindu Vision', Vol. 56 No. 4, September 30, 2009.	Bhavan's Journal.	RNI NO 6085/57
77	'Lakshmi-Goddess with Lotus in Hand', Vol. 56, No. 7, November 15, 2009	Bhavan's Journal.	RNI NO 6065/57
78	'LalaLajpatRai: The Lion of the Punjab', Vol. 56, No. 8, November 30, 2009.	Bhavan's Journal.	RNI NO 6065/57
79	'Status of Girl Child in Indian Tradition and Hindu Law Texts. 2009.	Dayanand Law Journal (Inaugural issue). D.G.B. Dayanand Law	ISSN- 2250-18 6X
30	'Hindu Women and Religion', Vol. 56, No. 12, January 31, 2010.	College, Solapur. Bhavan's Journal.	RNI NO 6065/57
31	'Varkaris-Bhaktas Who keep Time - I', Vol. 56, No. 14, February 28, 2010.	Bhavan's Journal.	RNI NO 6065/57
2	'Hinduism and Art – I', Vol. LXI. No. 3, March 2010.	Bulletin of the Ramakrishna Mission Institute of Culture,Kolkata	ISSN -0971-2755
3	'Varkaris-Bhaktas Who keep Time - II', Vol. 56, No. 15, March 15, 2010.	Bhavan's Journal.	RNI NO 6065/57
4	'Sant Tukaram – He touched the Souls of all Humans', Vol. 56, No. 16, March 31, 2010.	Bhavan's Journal.	RNI NO 6065/57
	'Hinduism and Art – II', Vol. LXI. No. 4, April 2010.	Bulletin of the Ramakrishna Mission Institute of Culture	ISSN- 0971-2755
3	'Bhagat Singh: Unique Revolutionary', Vol. 56, No. 17, April 15, 2010.	Bhavan's Journal	ISSN-0006-0518
7	'The Malady and the Remedy: Dr. Ambedkar and Social Justice', Vol. III, April-June 2010.	Dayanand Law Journal, Solapur	ISSN- 2250-186X
3	What is Meditation?', Vol. 56, No. 20, May 31, 2010.	Bhavan's Journal.	RNI NO 6065/57
	Anatomy of Physical, Subtle and Causal Bodies', /ol. 56, No. 21, June 15, 2010.	Bhavan's Journal.	RNI NO 6065/57
1	Sant Namdev: Saint-Poet of Maharashtra', Vol. 56,	Bhavan's Journal.	RNI NO 6065/57

9	1 'The Inward Journey', Vol. I No. 20, September 2010.	DAV's Ayurveda for Holistic Health, Jalandhar.	ISSN 2348-691
92	'O Faith, Give us Faith', Vol. 57, No. 7, November 15, 2010.	Bhavan's Journal.	RNI NO 6085/6
93	'God's Ways God Alone Knows', Vol. 97, No. 11, November 2010.	The Vedanta Kesari	ISSN-0-042-2983
94	'Caste is Neither Varna Nor Hereditary – I', Vol. 57 No. 09, November 15, 2010.	, Bhavan's Journal.	RNI NIO 6065/57
95	'Caste is Neither Varna Nor Hereditary – II', Vol. 57, No. 10, December 31, 2010.	Bhavan's Journal.	RNI NIO 6065/57
96	'Subhash Bose: A Man of Action, Ideas', Vol. 57, No. 11, January 15, 2011(also published in Aryan Heritage, Vol. XXVIII, No-1, January 2011).	Bhavan's Journal.	RNI N O 6065/67
97	'Nano- Concept in Indian Tradition', Vol. 57, No. 15, March 15, 2011.	Bhavan's Journal.	RNI N O 6065/57
98	'Dadi Chandramani: A Puissant Soul', Vol. 57, No. 16, March 30, 2011.	Bhavan's Journal.	RNI N O 6065/57
99	'Speaking to God', The Vol. 98, No. 3, March 30, 2011 (also published in DAV's Ayurveda for Holistic Health, Vol. 1, Issue 20, May-June 2011.	The Vedanta Kesari.	ISSN-0042-2983
100	'Women Warriors of India's Freedom-I', Vol. 57, No. 18, April 30, 2011.	Bhavan's Journal.	RNI NO 6065/57
101	'Women Warriors – 2. Mahatma Gandhi's Soldiers- At-Arms', Vol. 57, No. 19, May 15, 2011.	Bhavan's Journal.	RNI NO 6065/57
102	'A Peep Into Fathomless Hinduism', July 2011.	The Vedanta Kesari.	ISSN-OO42-2983
103	'Natha Pantha: Order of the Primordial Shiva –I', Vol.116, No. 7, July 2011.	Prabuddha Bharata.	ISSN-032-6178
104	'The Ultimate Blossoming: Osho on Death' Vol. 46(4), July-Sept, 2011.	Pathway to God, Academy of Comparative Philosophy and Religion, Belgaum.	ISSN-OO32-6178
105	'Balwant Bhau Nagarkar: A Forgotten Celebrity', Vol. 57, No. 22, July 30, 2011.	Bhavan's Journal.	RNI NO 6065/57
106	'Natha Pantha: Order of the Primordial Shiva –II', Vol. 116, No. 8, August 2011.	Prabuddha Bharata.	ISSN-032-6178
	Social Dimensions', Vol. 28, No. 8, August, 2011. 'Arya Samaj and DAV Movement', Vol. 58, No. 1, August 15, 2011.	Bhavan's Journal.	RNI NO 6065/57
108	'Charkha: History's Spinning Wheel', Vol. 58. No. U2, August 31, 2011.	Bhavan's Journal.	RNI NO 6065/57
109	'Sri Harimandir Sahib: Holiest Shrine of the Sikhs', Vol 58(6), October 31, 2011.	Bhavan's Journal.	RNI NO 6065/57
10	'Tuning to God -The Sikh Way. October – December 2011, Pp 33-37	Pathway to God	ISSN-0032-6178
11	'Kashmir Shaivism: A Study in Religious Syncretism', Vol. LXII, No. 11, November 2011.	Bulletin of Ramakrishna Mission Institute of Culture.	ISSN: 0971-2755
	'Kapalika and Kalamukha Saiva Sects: A Study in Spiritual Hedonism and Asceticism', Vol. I, No.4 December 2011, pp 1-4.	Contemporary Research in India,Solapur	ISSN 2231-2137
13	'Sri Ramakrishna: Facets of the Prophet- Mystic', Vol. 98, No. 12, December 2011.	The Vedanta Kesari.	ISSN-0042-2983
4 2	'Saiva Siddhanta: An Introduction'., December 15, 2011, pp.57-60	Bhavan's Journal	RNI NO 6065/57
5 1	Hindu Thought in Emerson and Thoreau', January 15, 2012, pp 55-61.	Bhavan's Journal	RNI NO 6065/57
6 '/	Arya Samaj and DAV Movement', January 2012.	Dayanand Law Journal	ISSN - 2250-186X
1	ebruary 15, 2012, pp 40-48.	Bhavan's Journal	RNI NO 6065/57
F .3	Relevance of Swami Vivekananda. Legacy of innobling ideas and Mild Rebukes', Vol.50, No 38, September 17-23, 2012. Pp 8-11	University News	ISSN-0566-2257
1 'S		Bhavan's Journal	RNI NO 6065/57
) 'T	owards Interfaith Fellowship', Vol. 59, No.8.	Bhavan's Journal	RNI NO 6065/57
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ovember 30,2012, pp 25-35		

			3
Γ	'Vivekananda's Impact on the World of Ideas', Vol. 118, No.2, February 2013, pp.306-339	ol. Prabuddha Bharata	ISSN-0=2-6178
	123 'Vivekananda's Impact on the World of Ideas', Vo. 118, No.3, March 2013, pp.251-255.	ol. Prabuddha Bharata	ISSN-0=2-8178
	124 Brahmacharya Pranashakti and Vivekananda', Vo 1,Issue -22,March-April 2013,pp.12-13	DAV Ayurveda for Holistic Health	ISSN 2348-8910
. 1	'Swami Vivekananda and Women Empowerment Traditional Paradigm in a Changing Milieu', Vol. 51,No. 12,March 25-31,2013	: University News	ISSN-0=66-2257
1	26 'Vivekananda's Impact on the World of Ideas', Vol.118, No.4, April 2013, pp 294-99	Prabuddha Bharata	ISSN-0=2-6178
1:	'Aum: Symbol, Sound and Supreme Way- Reflections on the Various Dimensions of the Sacred Aum', Vol. 100, No.4, April 2013, pp. 15-18	The Vedanta Kesari Also published in The Aryan Heritage, January 2014(Vol.XXXI No.1,Pp.16-17)	ISSN 00342-2983
12	'D.A.V.University, Jalandhar. A New Star on Academic Firmament, Vol XX, No. 4, April 2013	Aryan Heritage	
129	9 'Man –making is Nation-making', Vol. 51, No.20. May 20-26, 2013	University News	ISSN-05-66-2257
130	'Flora and Shiva Worship', Vol.59, No.20. May 31,2013, pp.pp.51-56	Bhavan's Journal	RNI NO 6065/57
131		Bhavan's Journal	RNI NO 6065/57
132	'Swami Vivekananda's Guidelines on Living', Vol. 100,No.12, December 2013 issue, pp.565-569	The Vedanta Kesari	ISSN 00 -42-2983
133	'Life and glory of Rama' Vol 60,No.9, December 15,2013, pp.68-73	Bhavan's Journal	RNI NO 6065/57
134		Emphasis: A Journal of Social Sciences	ISSN 22 -30-8285
135	Education and Life: The spiritual Praxis, Vol.60, No. 12,pp.52-56	Bhavan's Journal	RNI NO €065/57
136	'The Virashaiva Tradition', Vol. 60.No. 17, April 15, 2014, pp 57-64	Bhavan's Journal	RNI NO 6065/57
137	'The Udasi Tradition', Vol.60.No.19,May 15,2014	Bhavan's Journal	RNI NO 6065/57
138	'Hatha Vidya and Guru Gorakhnatha', Vol 60.No.21,June 15, 2014	Bhavan's journal	RNI NO 6065/57
139	'Was Creation Created?', Vol.60. No.24, July 31,2014 2014, Pp. 80-84	Bhavan's Journal	RNI NO 6065/57
140	'Rudraksha: Spiritual and Ayurvedic Medicine', Vol.1, issue 25, July 2014	DAV's Ayurveda for Holistic Health	ISSN 23-48-6910
41	Virchana Ragnavji Ganani: Bnartiiyata ke udghoshak,Jaina vidvan ke sashakta vyaktitva ka mulyankan', Part I, Vol. 58.No. 8, August 2014,pp. 34-38.	Vijyananda, a national journal of Shri Atmananda Jaina Mahasabha(North India) since 1956	
42	'Virchand Raghavji Gandhi: Bhartiiyata ke udghoshak,Jaina vidvan ke sashakta vyaktitva ka mulyankan', Part II, Vol. 58.No. 9, September 2014,pp.65-72	Vijyananda, a national journal of Shri Atmananda Jaina Mahasabha(North India) since 1956	
43	'Diwali: when light dispels darkness', Vol.61,No.5, October 15,2014,pp. 79-84	Bhavan's Journal	RNI NO 6065/57
14	'Trees and Deities, Vol.1,issue 26,October- November 2014, pp.36-38	DAV's Ayurveda for Holistic Health	ISSN 2348-6910
5	Virchand Gandhi:Exponent of Jainism and Indian Culture Abroad -1, Vol 61. No.9, December 15,2014	Bhavan's Journal	RNI NO 6065/57
6	Virchand Gandhi:Exponent of Jainism and Indian Culture Abroad -2, Vol 61. No.10, December 31,2014,pp.	Bhavan's Journal	RNI NO 6065/57
7	Education and Life: The Vedic Praxis, Vol.XXXI.No.12,December 2014,pp.12-13	Aryan Heritage	
	Virchand Raghavaji Gandhi: Assessment of a Jaina Scholar and Spokesman of India abroad,pp.87- 103. Vol. LXV, July-December 2014	Shramana (a quality research journal of Jainology, Parshwanath Vidyapeeth, Varanasi)	ISSN 0972-1002
	Virchand Raghavji Gandhi : An Indian Spokesman and Jain Scholar-part I,February 2015,	Prabuddha Bharata	ISSN-032-6178

	Vol.120,No.2, pp.237-39		
149	9 Hinduism 'Globalised' ? February 15, 2015,pp. 54- 61	Bhavan's Journal	RNI N 6085/57
150	and Jaina Scholar- Part II March 2015,	Prabuddha Bharata	ISSN-0 32-6178
151	India's Zoolatry Tradition, Vol.61, No.23, July 15, 2015, pp.47-53.	Bhavan's Journal	RNI N 6065/57
152	Every woman's Dream. 62 nd Annual number, Vol 62, No.1. August 15,2015,pp.106-16.	Bhavan's Journal	RNI N 6065/67
153	Soma Rasa, Sura Prohibitions in Religious Texts, September 2015	DAV's Ayurveda for Holistic Health	ISSN2348-6910
154	Yoga brings Infinity Closer, Vol 62, No.6, October 31,2015.	Bhavan's Journal	RNI NO 6065/57
155	Religio-Science in Hindu Way of Life, Vol 62, No 8,pp 44-49, November 30, 2015	Bhavan's Journal	RNI NC> 6065/57
156	The Cow in Indian and World Traditions, Vol 61, No.3. December 2015 pp. 26-31	Kalyana Kalpataru	4
157	Should the Cow Acquire National Sanctity, February 29,2016, Vol 62, No.14 Pp.41-46	Bhavan's Journal	RNI NO 6065/57
	The Tale of Kohinoor, June 30,2016	Bhavan's Journal	RNI NO 6065/57
59	Spirituality of Non-Possession, June 15, 2016	Bhavan's Journal	RNI NO 6065/57
60	Inner Pollution and How to Cope with it,63rd Annual Number, Vol. 63,No.1, August 15,2016, pp.67-72	Bhavan's Journal	RNI NO 6065/57
61	Viveka: Learning to Discriminate, Vol 63,No.3, September 15,2016	Bhavan's Journal	RNI NO 6065/57
52	The Tale of Kohinoor. Was it Gifted to or Grabbed by the British? Does India have a Special Claim on it? Vol II,Issue 2 2016,pp.1-4	Socialistas Galaxia	ISSN 2395-1 117
33	Is Poverty God-made or Man-made? Vol.63 No.6 Diwali Special number on 109-117	Bhavan's Journal	RNI NO 6065/57
34	Ash: Shiva's Best Symbol.Vol.LXVII No 12, December 2016,pp.25-27,34	Bulletin of Ramakrishna Mission Institute of Culture	ISSN no 0971-2755
5	Chanting one's way to the Supreme Being, Vol. 63, No 15, March 15, 2016, pp.53-56	Bhavan's Journal	RNI NO 6065/57
8	Adi Shankara: Paragon of Advaita Vedanta. Reframing the Literary Codes.Summer and Winter(6.186.2) 2016, pp.62-67	The Literati. A peer reviewed journal devoted to English language and literature	ISSN: 2:248-9576
7	Relevence of Vivekananda, Vol.63, No. 16, March 31,2017.pp.69-72	Bhavan's Journal	RNI NO 6065/57

Note on Journals of Credibility:

- Prabuddha Bharata: A monthly journal of Ramakrishna Order started by Swami Vivekananda in 1896.
 Vedanta kesari: A monthly journal of the Ramakrishna Order since 1914(started by Swami Vivekananda in 1895 as Brahmavadin)
- . Bhavan's Journal: A bi-monthly journal of Bharatiya Vidya Bhawan, Mumbai.
- . Kalyana Kalpataru: A prestigious journal of Gita Press, Gorakhpur, started in 1930s.
- Ayurveda for Total Health (rechristened as DAV's Ayurveda for Holistic Health): It is published by DAV
 Ayurvedic College, Jalandhar (a professional institution started in 1880s).
- . The Sikh Review : A theological educational and socio-cultural monthly founded in Calcutta in 1953

Peer Review of Publications

- A) Cultural Contact and Fusion: Swami Vivekananda in The West, Jalandhar, 1987.
 - Foreword by Homer E. Socolofsky of Kansas State University, 1987
 - Journal of Sikh Studies, February 1987.
 - Studies in Sikhism and Comparative Religion, October 1987.
 - Indian Express, Dec 22, 1987.
 - The Tribune, June 11, 1988.
 - Journal of Religious Studies. Spring-Autumn 1988.
 - Yuva Bharati, March 1989.
 - The Punjab: Past and Present, April 1989.
 - Prabuddha Bharata, May, 1990.
 - The Indian Historical Review.
- B) The Khalsa: Substratum, Substance and Significance, Centre of Historical Studies, Jalandhar. 2000.
 - The Sunday Tribune, June 3, 2001.
 - The Hindu (noticed but not reviewed).
 - Ajit, Punjabi newspaper, June 23,2002

Journal of Religious Studies. Spring-Autumn 2001

- C) The Varkaris: An Introduction, Centre for Preservation of Heritage of Maharashtra, Solapur, 2011.
 - Prabuddha Bharata, June, 2011(noticed but not reviewed)

The Vedanta Kesari, July 2011.

D) Hinduism: The Faith Eternal, Advalta Ashrama, Kolkata, 2015

Foreword by Dr. K. L. Seshagiri Rao, Professor Emeritus, University of Virginia. Review by Samvit, Kolkata, No.74- September 2016, pp. 91-92 (ISSN 0972-4869)

Review by Harish Khare in 'Kaffeeklatsch', The Sunday Tribune, 2October 2016; Dainik Tribune, 3 October 2016; Punjabi Tribune, 3 October 2016.

The Vedanta Kesari, Chennai, November 2016

Citation / References in Books and Journals

- Dr Ganda Singh Journal of Sikh Historical and Religious Studies, Vol 1. No. 1, March 1991.
 Harmandar Sahib Issue. Sikh History Research Department, Khalsa College, Amritsar, pages 3.
- News Reports from World Days of Prayer for Human rights, Freedom Justice and Peace Society, Hillsdale NJ, USA, Winter 1991, page 10.

 'Swami Vivekananda's Impact at the Parliament of Religions by Swami Tathagatananda, New York: Vedanta Society, 1993 (pages 8, 42).

 Carl T. Jackson, Vedanta for the West The Ramakrishna Movement in the United States, Indiaraa University, 1994, page 174. (ISBN: 025-233-098X).

 Usha Kapoor, Women and Welfare: A Study of Voluntary Agencies, Indus Publishing Company, New Delhi, 1995 (ISBN: 81-7387-032-2), pages 30, 44.

 Rajgopal Chattopadhyaya, Swami Vivekananda in India: A Corrective Biography, Mot ilal Banarasidass, Delhi, 1999, page 319. (ISBN: 817664-84652).

 MLBD Newsletter, New Delhi, May 1999. ('Ecological Concerns in Hinduism'), Prabuddha Bharata, January 1999).

MLBD Newsletter, New Delhi, May 1999. ('Indian Renaissance' Dharma World, Vol. 26, Janua ry-February 1999).
 MLBD Newsletter, New Delhi, March 2000. (Hinduism during the Previous Millennium', Prabuddha Bharata, January 2000).

'Punjab Through the Ages', in Institute of Sikh Studies, Chandigarh(on NET).

 M. G. Chitkara, Rashtriya Swayamsevak Sangh: National Upsurge, APH Publishing Corporation, Delhi, 2004, page 423. (ISBN: 81764-84652).

 B. G. Patil and G. B. Nandana, 'Rebuilding Society' in Pathway to God. Vol 46, No. 4 July-September 2011. Page 59.

 The Ultimate Blossoming: Osho on Death (Pathway to God, Vol. 46, No. 4, July -September 2011. MLBD Newsletter, January 2012.

University News: 'National-level Workshop on Bio-Resources for Bio-industries and Economic Zoology', March 21-27, 2011, pp. 30-31.

 University News: 'National Conference on Advanced Nano materials, Sensors and Instrumentation', April 04-10,2011,pp.35-36.

 Book Review: New Arrivals – Hinduism and Art: The Hermeneutics of Devotion; Lord Siva and Saiva Sects, The Hindu, May 1, 2012.

 Swami Shuddhidananda, Vivekananda As The Turning Point. The Rise of a New Spiritual Wave, Kolkata: Advaita Ashrama, 2013 (ISBN 978-81-7505-372-4), p. 252.

 Hindu Tradition and Modernity (editor, Rajendra Kumar Parashar), Bharatiya Itihasa Sankalana Samiti, Punjab, 2014 (ISBN 978-81-925222-0-4). Vide essay by Dr L. P. Upadhyay, 'Relevence of Swami Vivekananda's Message in the Present Scenario", pp.67-68.

Papers in Conference Proceedings

S. N	Title with page no.	Title, editor & publisher.	ISSN/ ISBN No.
1	'Religious Trends in Renascent India: Revivalism, Reformation and Syncretism', pp. 77-79.	Wazir Singh (Ed), Religious Pluralism and Co- Existence, Seminar Papers, Punjabl University, Patiala,1986.	
2	'Punjab Down The Ages: A Running Survey',pp.16-17	Pre-Conference publication – National Workshop on Good Manufacturing Practices for Ayurvedic Pharmaceutical Industry, Dayanand Ayurvedic College, Jalandhar in collaboration with Central Research Institute of Ayurveda, Patiala, March 19,2006	
3	'Historical Monuments'	Vaatchaal Samshodhanachi. Presented at 19th session of Akhil Maharashtra Itihas Parishad. Solapur, Dec. 24-25, 2010.	
4	'Economics and Ecology of Bio Resources: Vital Concerns',pp.69-	Proceedings of the National-Level Workshop cum	ISBN 81-903603- 6-1

	70	Seminar on 'Bio-Resources for Bio-Industries and Economic Zoology', Solapur, Maharashtra, India, 2011.	
5	'Nano-Technology'.	UGC-Sponsored National Conference on 'Advanced Nanomaterials, Sensors and Instrumentation'. Department of Electronics, Solapur, Jan. 21-22, 2011.	
6	'The Symbolism and Uses of Rudraksha in the Siva Purana and in Indian folklore'	UGC-Sponsored International Conference on 'Art and Architecture in Indian Subcontinent', Solapur, 2012.	ISBN 978-93- 81948-©8-8
7	'Nanotechnology in Ancient Indian Tradition'	UGC-Sponsored National Conference on Physics of Nanomaterials and Applications (NCPNA- 2012), Solapur, December 14-15,2012	ISBN 978-81- 92558€2-2
3	'Relevence of Swami Vivekananda: Some Key Dimensions.'	National Seminar on Makers of Modern India held at Abasaheb Garware College, Pune, February 22-23	

REVIEW ARTICLES (IN JOURNALS)

S.N	Title of Book	Journal	ISSN / I SBN No.
1	Swami Vivekananda: The Prophet of Human Emancipation by Santwana Das Gupta, Calcutta, August 1991.	Prabuddha Bharata.	ISSN-0:32-6178
2	Theology of liberation and Ideology Critique: A Study on the Praxis of Liberation in the Light of the Critical Theory by Thomas Kochuthare, Intercultural publications, New Delhi, August 1995.	Prabuddha Bharata.	ISSN 032-6178
3	Jesus Christ : An artifice for aggression by Sita Ram Goel, Voice of India, New Delhi, July 1996.	Prabuddha Bharata.	ISSN 032-6178
4	Hinduism and the Modern World by David Frawley, Voice of India, New Delhi.	Journal of Religious studies Prabuddha Bharata.	ISSN 047-2735 ISSN 032-6178
5	Hinduism and the Eternal Tradition by David Frawley, Voice of India, New Delhi.	Journal of Religious Studies.	ISSN 047-2735 ISSN 032-6178
3	Swami Vivekanand : Insan-i-Kamil by Som P. Ranchan, Indian Publishers Distributors, New Delhi.	Journal of Religious Studies, Punjabi University, Patiala.	ISSN-0O47-2735

BOOK REVIEWS (IN JOURNALS)

S.N	Title of Book with page no.	Journal	ISSN / ISBN No.
1	Wisdom of Vedanta by H.L.K. Sharma GDK Publication, Delhi, Oct. 1983.	Religion.	
2	The Political Philosophy of Swami Vivekananda by A.V. Ratna Reddy, Sterling Publishers, New Delhi, Sept. 1984.	Journal of Political Studies	ISSN 0976-8254
3	The Philosophical and Religious Lectures of Swami Vivekananda by Swami Tapasyananda, Sri Ramkrishna Math, Mylapore, August 1985.	Prabuddha Bharata.	ISSN 032-6178
4	Swami Vivekananda on Guru Gobind Singh by Swami Ranganathananda Bharatiya Vidya Bhawan, Bombay, August 1985.	+	ISSN 032-6178
5	Yoga and the Supreme Bliss (Songs of Enlightenment by Swami Ramatirtha). Translated from Urdu and Persian by A.J. Alston, Heritage Publishers, New Delhi, Sept. 1985.	Prabuddha Bharata.	ISSN-032-6178
1	Classical Hindu Mythology: A Reader in the Sanskrit Puranas Edited and translated by Cornelia Dimmitt and J.A.B. Vann Buitennen, Rupa and Company, New Delhi, Sept. 1985.	Prabuddha Bharata.	ISSN 032-6178
	Ancient Bihar: Her contribution to Religion and Civilization by Ramakrishna Mission Ashram, Patna. Sept. 1985.	Prabuddha Bharata.	ISSN 032-6178

	Swami Vivekananda: Prophet and Pathfinder by Swami Jitatmananda Andhra Pradesh, Ramakrishna Sarada Kutir, Kothagudam,	Prabuddha Bharata	ISSN 032-617 8
-	January 1986. 9 The Dedicated: A Biography of Sister Nivedita by Lizelle Raymond, Samata Books, Madras, Oct. 1986.	Prabuddha Bharata.	ISSN 032-617-8
T	10 My India My People - Sister Nivedita by Pravrajik Atmaprana, Ramkrishna Sarada Mission, Net Delhi November 1986.		ISSN 032-617-8
	Swami Vivekananda and the World of Youth by N Mukhopadhyaya, Akhil Bharat Vivekananda Yuv Mahamandal, West Bengal, March 1987.		ISSN 032-617-8
	The Dedicated: A Biography of Sister Nivedita b Lizelle Raymond, Samata Books, Madras. Spring 1987.		ISSN 0047-27 35
1	 Aesthetic Vision of Sri Aurobindo by H.R. Justa R.K. Books, New Delhi. Autumn 1987. 		ISSN 0047-27 35
1	Modern Indian Thought by Dev Raj Bali, Sterling Publishers, New Delhi. March 1989.	yuva Bharati.	
1:	A Comprehensive Biography of Swami Vivekanano 2 Vols by S.N.Dhar, Vivekananda Kendra Prakashan, February 1992.		ISSN 032-617 8
16			ISSN 032-617 8
17		Prabuddha Bharata.	ISSN 032-617 8
18	Religion in Modern India by Robert D. Baird, Manohar, Delhi, Autumn 1993.	Journal of Religious Studies.	ISSN 0047-27-35
19	Swami Vivekananda: Patriot Prophet: A Study by Bhupendranath Datta, September1994.	Prabuddha Bharata.	ISSN 032-617-8
20	The Divine Path (A video film on DivyayanKrishiVigyan Kendra, Morabadi, Ranchi, Bihar), August 1995.	Prabuddha Bharata.	ISSN 032-617-8
21	Studies in Kathasaritasagar by Aparna Chattopadhyaya, Banaras Hindu University, Varanasi, September, 1995.	Prabuddha Bharata	ISSN 032-617 8
22	Eternal Platform by Swami Vamanananda, Advaita Ashrama, Calcutta, September 1995.	Prabuddha Bharata	ISSN 032-617 8
23	The Saint and the Scientist: Life writings and teachings of Prof. Swami Jnanananda compiled by Raja Umapathi, University Resource Press, Washington, Docombor 1005.	Prabuddha Bharata	ISSN 03-2-6178
24	Jesus in Neo-Vedanta: A Meeting of Hinduism and Christianity by K.P. Aleaz, Kant Publications, Delhi.	Prabuddha Bharata.	ISSN 03-2-6178
5	July 1996. The Gospel of Sri Ramakrishna by M., Remakrishna Math, Madras, Spring-Autumn 1996.	Journal of Religious Studies.	ISSN 00-47-2735
6	Dancing with Shiva: Hinduism's Contemporary Catechism by Satguru Sivaya Subramuniyaswami, Himalaya Academy. U.S.A., Spring- Autumn 1996.	Journal of Religious Studies.	ISSN 0047-2735
7	The Foundation of Living Faiths: An Introduction to Comparative Religion by Haridas Bhattacharya, Motilal Banarsidas, Delhi, August: 1996: Autumn 1997.	Journal of Religious Studies.	ISSN 0047-2735
1	Hymn to Sri Dakshinamurthi with Mansollasa by Nagesh D. Sonde, Mumbai, November, 1996.	Prabuddha Bharata.	ISSN 032-6178
	In the Service of God and Man: The R.K. Mission in Mauritlus by L.P. RaySome Moments with the master: Spiritual Dialogues with the Sufi Saint Sai Rochal Das Sahib by Dr. R.M. Hari, Autumn 1997.	Journal of Religious Studies.	ISSN 0047-2735
	Sindhi Sufi Literature in Independent India by S.L. Gajwani, Sindhi Academy Delhi. 1998.	Prabuddha Bharata.	ISSN 032-6178
	Arun Shourie and his Christian Critic, Voice of India, New Delhi, July 1998.	Prabuddha Bharata.	ISSN 032-6178
	A Great Savant: Mahamahopadhyaya Gopinath Kaviraj by G.G. Mukhopadhyaya, Calcutta, December, 1998.	Prabuddha Bharata.	ISSN 032-6178
	Mundaka Upanishad by Swami Muni Narayana, Vol. 105, September 2000.	Prabuddha Bharata.	ISSN 032-6178

34	Katha Upanishad by Swami Muni Narayana, Vol. 105, September 2000.	Prabuddha Bharata .	ISSN 0-32-6178
35	Glories of Sri Ramakrishna: Sri Ramakrisha Stotram by T. A. Bhandarkar. Vol. XXXV, No. 1 and 2, Spring- Autumn 2004.	The Journal of Religious Studies.	ISSN 0-47-2735
36	Photographs of Sri Ramakrishna-Sarada Devi by Swami Vidyananda and Dr. Purba Sengupta, Vol. XXXV, No. 1 and 2, Spring- Autumn, 2004.	The Journal of Religious Studies.	ISSN 0 47-2735

FOREWORD TO BOOKS AND JOURNALS

S.N	Title with page no.	Book / Journal Title, editor & publisher	ISSN/ ISBN No.
1	Lord Linlithgow in India, 1936-1943 by Dharamjit Singh	ABS Publications, Jalandhar, 2005.	ISBN 81-7072-08 7-7
2	Essence of Srimad Bhagvad Gita by Bansi Mahajan	Srimad Bhagvad Gita Devotees Circle, Mumbai, 2008.	
3	I Belong to You (A Treatise on Cosmic Culture) Jernail Singh Anand	Jnanada Prakashan (P & D), New Delhi, 2011.	ISBN 978-81-713-468-5
4	Marathi Prabandha Suchi by D. R. Gaekwad	Nirmiti Samvad, Kolhapur, 2011.	ISBN 978-81-921 784-5-5
5	DAV International Journal of Science ('Science and Beyond')	Dayanand Publications, Solapur, 2012	ISSN Print) 227 7 -5536 ISSN Online 2277 - 564 7
6	Dayanidhi (Prakkathana)	Proceedings of Two-days Natioanl Conference, Organized by Maharashtra Rajya Hindi Sahitya Acadamy, Paryatan Evam Samskritic Karya Vibhag Maharashtra and D.B.F. Dayanand College of Arts and Science, 3-4 March, 2012	ISBN 81-903603-7-X
	Impact of World War II on India with special reference to the Punjab by Dr Rakesh Sharma	Writer's Choice, New Delhi,2014	ISBN: 978-81-925 526-3-7

BOOK REVIEWS: NEWSPAPERS

S.N	Title	Journal
1	'Yoga: A Scientific Interpretation', Chandigarh, October, 3, 1981.	The Tribuno.
2	'Vedanta for our Life Here and Now', October 10, 1981.	The Tribune.
3	'Multifaceted Schemes', November 14, 1981.	The Tribune.
4	'Exalted Indian Thinkers', January 8, 1982.	The Tribune.
5	'Transition in Europe', February 13, 1982	The Tribune.
6	'A Look Back At Secular U.S.S.R.', April 10, 1982.	The Tribune.
7	'Modern Indian Luminaries', June 12, 1982.	The Tribune.
8	'A Primer on International Relations', August 14, 1982.	The Tribune.
9	'Communism sans Mythology', August 28, 1982.	The Tribune.
10	'Towards End of War and Man', November 27, 1982.	The Tribune.
11	'How to Make Sociology Relevent?' February 26, 1983.	The Tribune.
12	'Indian Tradition Through Indian Eyes' May 14, 1983.	The Tribune.
13	'A Medley of Cults and Sophistication', August 6, 1983.	The Tribune.
14	'Vivekananda's Synthesis of Religions', August 6, 1983.	The Tribune.
15	'A Prophet Honoured Very Late', October 22, 1983.	The Tribune.
16	'Netaji: A Storm-Rider', January 28, 1984.	The Tribune.
17	'India of Al-Biruni's Time', May 13, 1984.	The Tribune.
18	'Renaissance Turned into Revivalism', July 16, 1984.	The Tribune.
19	'Puranas as Mirror of Society', October 13, 1984.	The Tribune.
20	'Socialist Ideas of Swami Vivekananda' November 17, 1984.	The Tribune.
21	'Spiritual Seeker to Spirited Fighter', July 13, 1985.	The Tribune.
22	'Gandhi not Mahatma', February 15, 1986.	The Tribune.

23	'Disintegrated Views on Integration', May 4, 1986.	The Tri=bune.
24	'A Different view of Indian History', June 1, 1986.	The Tri=bune.
25	'The Days and Nights of INA', August 17, 1986.	The Tri bune.
26	Philosophy of Paramahamsa', September 14, 1986.	The Tri bune.
27	'Netaji: Man and Visionary', November 23, 1986.	The Tri bune.
28	'Art As Outward Religion', March 29, 1987.	The Tri bune.
29	- 'Japan's Help in Freedom Fight', January 9, 1988.	The Tri bune.
30	'Four Strands of Freedom Fighters' May 7, 1988.	The Tri bune.
31	'Away from Spare parts-Views of Development', September 11, 1988.	The Tri bune.
32	'On a Voyage of Humanistic Discovery', Octeber 2, 1988.	The Tri_bune •
33	'World View of Aurobindo and Marx', May 21, 1989.	The Tri_bune.
34	'Terror is born in Sick Society', The Tribune, August 20, 1989.	The Tri bune.
35	'Aurobindo's Dream of Noble India and Reality' The Tribune, September 3, 1989.	The Trī_bune.
36	'A Sage under the Microscope', Tribune, May 12, 1990.	The Trī_bune.
37	'The Swami of Indian Renaissance', February 10, 1991.	The Tri_bune.
38	'The Cultural Synthesis: Is It A Myth?' January 23, 1994.	The Tri∡bune.
39	'Church As Epicentre of Revolution', June 12, 1994.	The Tri∡bune.
40	'Jesus as Exponent of Advaita', July 9, 1995.	The Tri∡bune.
41	'Health Workers of Ancient India', The Tribune, August 6, 1995.	The Tri bune
42	'Living Faith or Museum of Old Faiths', September 10, 1995.	The Tri∡bune.
43	'Looking Inward: Yoga way' October 22, 1995.	The Tri bune.
14	'Jesus: Weak History but Strong Faith', The Tribune, December 10, 1995.	The Tri bune.
15	'God as Mentor and Teacher as Divinity', February 25, 1996.	The Tri bune.
6	'A Pujari with Devotees World Over', May, 1996.	The Tri bune.
7	'With Shiva, Life is a Dance of Self Discovery', August 4, 1996.	The Tribune.
8	'The Sufi Saints of Sind', May 17, 1998.	· The Tri bune.
9	'Cast in the Classical Hero Mould', June 28, 1998.	The Tri bune.
0	'Plurality, Tolerance are the Soul of Hinduism', July 19, 1998.	The Tri bune.
1	'Little India in Distant Mauritius', November 22, 1998	The Tribune.
2	'The Doctrine of Karma', by Yuvraj Krishna, Vol.104, October 1999.	Prabud dha Bharata
3	'A Sufi Galaxy', by S.L. Gajwani, May 2002.	The Ve danta Kesar

ARTICLES IN NEWSPAPERS AND MAGAZINES

S.N	Title with page no.	Name of Publication	
1	'Swami in Chicago', Sept. 26- October 2, 1976.	The Illustrated Weekly of India, Bombay	
2	'The Legacy of Buddha', April 4, 1977.	The Tribune, Chandigarh.	
3	'Missing Links, No Attractions', May 28, 1977.	The Tribune.	
4	'Jalandhar: Past and Present', December 1977.	Advance, Chandigarh	
5	'Drinking in Ancient India', March 5, 1978.	Sunday Standard (Indian Express), Bombay.	
6	'A Rosary of Rudraksha', April 5, 1981.	Sunday Review (Times of India).	
7	'Hinduism Which Had Been Once Regarded As Devilish Now Came to be Regarded as Human and Sometime Divine', November 1, 1981.	Sunday Review (Times of India), Bombay.	
8	A People who have been An Ornament to Creation', November 8, 1981.	Sunday Review (Times of India),	
9	'Portraits and Portraitists', July 6, 1982.	The Tribune.	
10	'Species Called Godmen', September 5, 1982.	The Tribune.	
11	'The Dassehra Tradition: Legends, Myths and Rituals', October 24,	The Tribune.	
12	'The Diwali Tradition: Legends, Myths and Rituals', November 14, 1982.	The Tribune	
13	'Prophet of Resurgent India', January 12, 1983.	The Tribune.	
4	'Historical Monuments', April 3, 1983.	The Tribune.	

[5 'Lord Rama and Ramayana', April 17, 1983.	The Tribune.
1	6 'Indian Horse Tradition', July 31, 1983.	The Tribune.
1	7 'The Rakhi Tradition: Legends, Myths and Rituals. August 21,1983 (Also published in Yuva Bharati, August 1988).	The Tribune.
	8 'Ram Mohan Roy: Father of Modern India', September 25, 1983.	The Tribune.
	9 'God Man and Society', September 16, 1990.	The Tribune.
2		The Tribune.
2		The Tribune. Yu-a Bharat
22		The Tribune.
23		The Tribune.
24		The Tribune.
25		The Tribune.
26		The Tribune.
27		The Tribune.
28		The Tribune.
29		The Tribune.
30	'They Called It Soma Then', October 11, 1987.	The Tribune.
31	'The Voice That Filled the Sky,' January 10, 1988.	The Tribune.
32	'The Monk Behind the Saint', August 14, 1988.	The Tribune.
33	'World Parliament of Religions', September 18, 1988.	The Tribu ne.
34	'Diwali: Lore and Light', November 6, 1988.	The Tribune.
35	'Vedanta and Vivekananda', January 8, 1989.	The Tribune.
36	'A Lighthouse for Mankind', March 12, 1989.	The Tribune.
37	'The Baisakhi Tradition', April 9, 1989.	The Tribune.
38	'His Strength was Truth' (on Mahatma Gandhi), October 1, 1989.	The Tribune.
39	'Vivekananda: Saint or Prophet?' January 7, 1990.	The Tribune.
40	'Osho Rajneesh: A Messiah or Sex God'? Feb. 18, 1990.	The Tribune.
41	'Maharaj Charan Singh', July 22, 1990.	The Tribune.
42	'Dr Ambedkar and Social Justice', August 26, 1990.	The Tribune.
13	'Maharaj Ranject Singh: A Man of Destiny', November 11, 1990.	The Tribune
44	'Quest for Ultimate Reality', November 25, 1990.	The Tribune.
45	'Our Self Created Cocoons', January 6, 1991.	The Tribune.
16	'Fusion of Science and Spirituality'. January 13, 1991.	The Tribune.
7	'Osho on Life, Death and Beyond', February 3, 1991.	The Tribune.
8	'Bhagat Singh: A Symbol of Revolution', March 17, 1991	The Tribune
9	'The Real Face of Punjab', April 28, 1991. Also Published in Azaad (Punjab News Letter) Vol I, Issue 3, May 15, 1991.	The Tribune
0	'The Ignored Aspects' (on Punjab), The Tribune, May 5 1991.	The Tribune.
1	'MaharajCharan Singh', July 22, 1990	The Tribune.
2	'The Pull of the Beas Dera', August 11, 1991.	The Tribune.
3	'Township of Spiritual Seekers', August 18, 1991.	The Tribune.
5	'Anchor of Faith: Baba Sodal', October 6, 1991. 'Swami Vivekananda on Guru Nanak Dev', November 12, 1991; November 14,	The Tribune. Indian Express:
3	'Guru Tegh Bahadur : Prophet of Hope', December 15, 1991.	Jalandhar News line.
-	'Encounter with a Holy Soul.' January 1992.	The Tribune, The Tribune.
	'Mystery of Shiva', March 11, 1992.	The Tribune.
	'History: Shades and Shadows' Part-I. June 14, 1992.	The Tribune.
-	'Blinkers and Blinders' Part-II. June 21, 1992.	The Tribune.
	'Nehru : an Agnostic', November 15, 1992.	The Tribune.
10.00	'Vivekanand on Religious Harmony', January 10, 1993.	The Tribune.
-	IA notation of Control I OT 1999	ment of the state
	'Anatomy of Service', June 27, 1993. 'Vow to Care for Husband', November 3, 1993.	The Tribune. The Tribune.

T	66 Diwali : Symbol of Light and Truth', November 10, 1996.	The Tribune
	Netaji : Man and Ideas', January 26, 1997.	The Tribune.
		1.05 (1.05 (1.05)
-		The Tribune.
1	'Holi : Splash of Colour, Whiff of Fragrance', March 1997 ;March 1988).	The Tribune. Yuva Bharati
7	'What Man has Made of Earth?', May 11, 1997.	The Tribune.
7	1 'Punjab: A Grand Survey Down the Ages', July 1997.	Punjab Monitor, Armritsar.
7	2 'Neem: The Healer among Trees', July 1997.	Punjab Monitor.
7	3 'Freedom Struggle in Punjab', The Tribune, August 9, 1997.	The Tribune.
7	4 'Swami Vivekananda at Chicago' September 20, 1997.	The Tribune.
7.	'The Dassehra Tradition', October 11, 1977; (also published under a different caption. 'The Worship of Durga', October 1988).	The Tribune. Yuva Bharati, Kan yakumari
76		Punjab Monitor.
77	D. T.	Punjab Monitor.
78	'The Trail Blazer of Orientalism (on Sir William Jones)', January 18, 1998.	The Tribune.
79		The Tribune.
80		The Tribune.
81		The Tribune.
82	'Bharat di Azadi Sangharsh de Angaule Ghulatiya: Dr Arur Singh', August 14,	USUSE ALAPTREPROPRO
02	1998.	Daily Akali Patrika, Jalandha
83	'Fraternity of Faiths', November 6, 1998.	Indian Express.
84	'He Gave a Phillip to Freedom Struggle', November 15, 1998.	The Tribune.
85	'The Rattle Reminds Me of My Love', December 15, 1998.	Punjab Monitor.
86	'A Dogma is not a Religion', Tribune, February, 13, 1999.	The Tribune.
87	'Missionary Activities and Swami Vivekananda', February, 13, 1999.	
88	'Holy Grain for Winter', January 14, 2001.	The Tribune.(Onlir>e edition).
89	'The Magnificent Maharaja', November 11, 2001.	The Tribune.
90	'Saving History from Distortion', December 16, 2001.	The Tribune.
91	'Power of Prayer can make a difference', May 30, 2002.	The Tribune,
92	'Beneath-the-Water, City Rises to New Heights', August 6, 2004.	The Tribune. (Online edition).
93	'Jalandharis are Enterprising', (online edition) August 6, 2004.	The Tribune.
94	'Not at the Cost of Character,' (Education The Tribune page), November 1, 2005.	The Tribune.
95	'Guru Nanak Dev as per Swami Vivekananda.' November 24, 2007.	Hindustan Times, Jalandhar Live.
96	'Guru Gobind Singh: The Final Journey', December 30, 2007.	Hindustan Times, Sunday Magazi
97	'Remembering Baba Sri Chand', Sept. 26, 2007.	The Tribune Jalanchar edition
98	'Sabhi Ke Lia Saman Avasar Ki Parikalpana', 12 January 2007.	Dainik Bhaskar(main edition)
9	'Onion Tale', February 17, 2007.	The Tribune.
100	'Remembering Baba Shri Chand', September 20, 2007.	The Tribune Jalandhar edition
01	'Propitiating Goddess Durga', October, 17, 2007.	The Tribune Jalandhar edition
02	'Idea of Hinduism', January 13, 2008.	The Tribune. Spectrum.
03	'On Abstinence', August 31, 2012	The Speaking Tree The Times
04	'The Gardener Saint' (On Sant Savata Mali), November 4, 2012	of India (print edition) The Speaking Tree(print edition)
05	'The Universal Teacher' (On Swami Vivekananda), February 17,2013	The Speaking Tree(print edition)
06	'Expression Divine is Expression Human'	Satish K kapoor blog on The Speaking Tree, The Times of India
07	'Why Do Some People Die Young'	Satish K kapoor blog on The Speaking Tree, The Times of India
08	'An Eternal Source of Inspiration', February 7, 2015	The Speaking Tree (print edition)
188	'Need and Greed', April 8, 2016	The Economic Times blog

110	'Viveka means Learning to Discriminate', September 6, 2016	The Times of India (editorial page)
111	'Abhangas of Namadeva', October 22,2016	The Speaking Tr ←e(print edition)
112	'Charkha, Gandhi and Spirituality', January 21, 2017	The Speaking Tr ← e(print edition)
113	'Love, Holi, Hola and Ayurveda', March 10,2017	The Speaking Tr ◆ e. IInternet edition. Also published in Femina: Spirituælity
114	'Gorakhnatha to Adityanatha' March 25, 2017	The Speaking Tr
15	+ ABOUT 50 MORE ARTICLES IN SOUTH ASIAN NEWS PUBLISHED BY TORONTO, CALGARY and EDMONTON; DAINIK BHASKAR; and on many websites.	

Letters to Editor

S.N	I Title	Newspapers/ Mag azines
1	'Reason and Action', February 26, 1972.	The Tribune, Chamdigarh
2	'Beecher's Thought', May 19, 1972.	The Tribune.
3	'Animating Thought', July 15, 1972.	The Tribune.
4	'Bully is Beaten', September 21, 1972.	The Tribune.
5	'Celestial Drug', October 26, 1972.	The Tribune.
6	'A Colossus Wakes Up', October 5, 1972.	The Tribune.
7	'Guiding Spirit' (on Sant Fateh Singh's Death), November 2, 972.	The Tribune.
8	'Who Invites?', November 16 , 1972.	The Tribune.
9	'Saint, Sinner and Counselor', December 20, 1972.	The Tribune.
10	'Nixon in Queue', January 30, 1973.	The Tribune.
11	'Ministers and the Masses', May 11, 1973.	The Tribune.
12	'Boy or Girl?', May 29, 1973.	The Tribune.
13	'Distress Story', July 26, 1973.	The Tribune.
14	'Worth of a man Across the Seas', July 2, 1973.	The Tribune.
15	'Price of Socialism', August 28, 1973.	The Tribune.
16	'Odd Order', February 19, 1973.	The Tribune.
17	'Kissinger's Role', 'Nov 16, 1973.	The Tribune.
18	'Cause and Effect', November 30, 1973.	The Tribune.
19	'Two Koreas', December 13, 1973.	The Tribune.
20	'Distortion of History', December 31, 1973.	The Tribune.
21	'The Citizen's Right to Rebel', January 31, 1974.	The Tribune.
22	'Assault on Intellectual Honesty', February, 19, 1974.	The Tribune.
23	'Lesson of Gujarat', March 20, 1974.	The Tribune
24	'Gubernatorial Woes', March 27, 1974.	The Tribune.
25	'Nehru Was Not To Blame', May 27, 1974	The Tribune.
26	'Let-down by Intellectuals', June 6, 1974.	The Tribune.
27	'Not an Inch', July 2, 1974.	The Tribune.
28	'Was Bhagat Singh Pro-Communist?' May 4, 1982.	The Tribune.
29	Responses from Accredited Institutions, January 2004.	NAAC News.
30	'Concrete Action Against Pakistan Needed', December 31, 2008.	Times of India.
31	'Hindi Media' (On Mrinal Pandey's article), November 23, 2009.	The Hindu
32	Babri Masjid', December 8, 2009.	The Hindu.
33 '	Sai Baba Mystique', January 31, 2010.	Bhavan's Journal.
34 '	Clarification' (On Trina Jyoti Herb), February 15, 2010.	Bhavan's Journal.
5 '	Live-in Relationship', March 31, 2010.	The Hindu.
	Sexual Abuse', April 7, 2010.	The Hindu.

37	'Erosion of Species', May 27, 2010.	The Hindu.
38	'Celebration of Valentine Day Questioned' July 18, 2010.	Organiser.
39	'Veil Threat', July 22, 2010.	The Hindu.
40	'Live-in Relationship', July 25, 2010.	Organiser.
41	'Ban on Zakir Naik's Entry in the U.K., August 8, 2010.	Organiser.
42	'Asghar Ali and Islam', August 15, 2010.	Bhavan's Journal.
43	'Why Only the Tiger?', October 15, 2010.	Down to Earth
44	'Why this discrimination between animals?' November 15, 2010.	Bhavan's Journal.
45	'Military Lessons', December 8, 2010.	Indian Express.
46	'Factual Errors', (In Wendy Doniger's book on Hinduism) December 25, 2010.	Economic and Pol'Itical Weekly,Mumbai
47	'Leave Goats Alone', January 15, 2011.	Down to Earth.
48	'Soul Elevating' (On Sai Baba), January 15, 2011.	Bhavan's Journal.
49	'End of Terror? (On Osama Bin Laden's Killing). May 4, 2011.	The Hindu.
50	'Baba's Love', The Speaking tree, May 1, 2011.	The Times of India.
51	'A Matter of Bias' (Comment on 'Why I did not join Anna Hazare?), May 12, 2011.	Indian Express.
52	'Irrational on Sai Baba', May 14, 2011.	Economic and Political Weekly
53	'Sri Sathya Sai Baba: A Tribute', June 5, 2011.	Organiser,
54	'Ramdev Sena', June 10, 2011.	The Hindu.
55	' Misreading Baba Ramdev', July 31,2011	Organiser(weekly)
56	'I Can't Eat for You', The Speaking Tree, August 14,2011	The Times of India (Pune edition)
57	'Anna and India', August 22,2011	The Hindu
8	'A Place in My Heart' November 15, 2011.	Bhavan's Journal.
9	"Muslim Vote Bank' February 7, 2012.	The Hindu.
0	"Keep the Faith", November 23,2014	The Tribune(Sunday)

Note: Presently I write for the column, Spiritually Speaking, in The Tribune, Chandigarh.

Training Courses

S.N	Programme	Duration	Organised by
1	Youth Leadership Training Camp	One Month 1969	Panjab University, Chandigarh
2	Study and research course as a British Council Scholar at School of Oriental and African Studies.	1974-1975. One Year	University of London
3	Orientation Course in Simla and Induction programmes in DAV College, Jalandhar, and LKCJ, Jalandhar	Two-day course In Simla, and one day yearly programme from 1998- 2008	IGNOU
4	Final review of manuscript of Encyclopedia of Hinduism (11 Volumes). June 1-15, 2005	15-days Workshop, Rishikesh.	India Heritage Research Foundation.

PAPERS PRESENTED IN CONFERENCES, SEMINARS, WORKSHOPS, SYMPOSIA

S.N	Title of Paper Presented	Conference/Seminar etc.	Date(s) of the event	Organised by	International/ National/ State/ Regional/ University or College Level
Papei 1	'S Presented /Conferences a 'Substratum of Service: The Hindu Perspective'	2 nd Assembly of World Religions, San Francisco.	Aug. 15-22, 1990.	Assembly of World Religions	International
					International

	Hinduism'	Congress of Vedanta.	1997.	Of Philosophy, Miami University Oxford, Ohio. Venue: Rishikesh.	
60	3 'Education for a better Society'	International Conference on 21st Century and the present period of Moral and Social Reconstruction.	Feb. 6-9, 1998.	Brahmakumar s' World Headquarters, Mount Abu, Rajasthan.	International
4	Transnational Links'. (Co-Chairman Session-	*	2006.	Educational Foundation of India (USEFI)and LKC,Jalandhar	International
5	'Art and Architecture in the Indian Subcontinent' Address of Welcome an Valedictory address.		February 17- 19, 2012	D.B.F. Dayanand College of Arts and Science, Solapur	International
6	Guest of Honour and speaker at Inaugural session	UGC-sponsored International Conference on Peace, Terror and United Nations :Structuring Gandhian Principles in The Age of Extremes	January 31,2015	J.C.DAV College,Dasuya	International
7	Guest of Honour and Key-note Speaker on February 7	Arise,Awake and Stop Not : Reflections on Swami Vivekananda's Global Thought	February 6- 7,2015	PTU-sponsored International Conference at Rayat- Bahra Institute of Engineering and Nano- Technology, Hosjiarpur	International
	National/ State		is a		
1	'Indian Renaissance' (Modern India Section)	National Seminar on 'Religious Pluralism and Coexistence'.	March 19-20, 1985.	GGS Department of Religious Studies, Punjabi University, Patiala.	National
2	'Vivekananda's Perceptions of Indian Women'	ICHR- sponsored National Seminar on 'Indian Women'.	February 7- 9, 1992.	Panjab University, Chandigarh.	National
3	'Scope Notes' for contributors in Area 2: 'Hinduism in Global Context'.	Workshop of Encyclopedia of Hinduism,Rishikesh (Himalayas).	April 15- 22,1994.	India Heritage Research Foundation.	National
	Dr. Ambedkar and Social Justice	Seminar on Dr B.R. Ambedkar.	April 28, 1994.	Department of Political Science, Punjab University, Chandigarh.	National
	Presentation in Area 02 ,Hinduism in Global Context Chairperson: L. M. Singhvi.	Editors /Scholars Conference,	Dec. 16-18, 1994.	India Heritage Research Foundation.Venue: National Museum, New Delhi.	National
	Presentation on content and Methodology of Encyclopedia of Hinduism .	Editor's Conference of Encyclopedia of Hinduism and Indic Religions.	Dec. 27-31, 1995.	India Heritage Research Foundation.	National
	'Objectivity in Research on Valmiki'.	National Seminar on	Dec. 9-10, 1997.	Punjabi University, Patiala,	National
	'Human Values'.	Symposium on 'Human Values'.	Sept. 20, 1998.	Bharatiya Sarvahit Parishad, Circuit House, Jalandhar.	State
	'Challenges of 21st Century'.	'Challenges of 21st Century'		Indian Cultural Forum, Jalandhar.	State
	'Swami Vivekananda: Life and Message'.		2002.	Department of Hindi, Guru Nanak Dev University, Amritsar.	National

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11	'The Dimensions of Swami Vivekananda's Impact in the West'.	63 rd Session of Indian History Congress, Amritsar.	63 rd Session	Guru Nanak Dev University, Amritsar.	National
12	A Critical Review of Dr. Jasbir Singh Dosanjh's book, 'Oh God, it is too much'.	Interactive Session of Federal India Forum.	August 25, 2002.	Venue: Circuit House, Jalandhar.	Sta-te
13	'Nano-Technology'.	UGC-Sponsored National Conference on Advanced Nanomaterials, Sensors and Instrumentation.	Jan. 21-22, 2011.	D.B.F. Dayanand College of Arts and Science Solapur	Nat ional
14	'Role of Women in Indian Freedom Struggle' Keynote Address Feb. 23, 2011	UGC-Sponsored National Conference on Role and Contribution of Women in the Freedom Struggle.	Feb. 23-24, 2011	D.A.V. College, Bathinda (Punjab).	Nat Ional
15	'Relevance of Swami Vivekananda', Valedictory address, August 25, 2011	Two — days seminar on 'Dimensions of Philosophy of Swami Vivekananda and its Contemporary Relevance'.	August 25- 26, 2011.	Jointly organized by Department of Philosophy, University of Mumbai, Vivekananda Kendra, Kanyakumari, Ramnarayan Ruiya College, Mumbai, and Joshi Bedekar College, Mumbai.	Nat ional
6	Sant Sahitya ki Prasangikta; Hindi Ke Liye Samarpit Marathi Bhashi Rachanakar; Maharashtra Ki Hindi Prachar Sansthayen. Address of Welcome and Valedictory address.	Dvi-Divsiya Rashtriya Sangoshti	March 3-4, 2012	D.B.F. Dayanand College of Arts and Science, Solapur	Nat i onal
9.	+ MANY MORE NOT LISTED HERE				-

INVITED LECTURES AND CHAIRMAN/PRESIDENT AT CONFERENCES/ SEMINARS

S.N	Title of Lecture/ Academic Session	Title of Conference/Seminar etc.	Date(s) of the event	Organised by
1.	'Role of Teachers'	Teacher's Day	September 5, 1977.	D.A.V.College,Kangra
2	'Revolution of 1911'	Extension lecture	February, 1980.	Guru Nanak College for Women, Charan Kanwal Banga.
3	'British Policy towards India'	Personal Contact Programme	December 14, 1983.	Department of Correspondance Courses, Punjabi University, Patiala.
4	'Problem of National Integration'.	Symposium.	September 7, 1986.	Bharat Vikas Parishad, Phagwara.
5	'Rudraksha in Ancient Indian Lore'	Invited Lecture	November 5, 1986.	Rotary Club (Mid Town) Jalandhar.
6	Revolt of 1857	Refresher Programme for Teachers (07/03/1989- 12/03/1989).	09/03/1989. Morning Session	In-Service Training Centre, Jalandhar City.
7	Revolt of 1857	Refresher Programme for Teachers 10/07/1989- 10/10/1989.	13/07/1989. Morning Session	In-Service Training Centre, Jalandhar City.
8	Indian Renaissance: Revivalist and Reformatory trends	General Orientation Course.	September 23, 1989.	Academic Staff College, Guru Nanak Dev University, Amritsar.

	General Orientation Course.	October 5 1989	Academic Staff College, Guru Nanak Dev Univer sity, Amritsar
Revolt of 1857; World Maps.	Refresher Programme for Teachers (04/12/1989- 15/12/1989).	11/12/1989. Morning Session	In-Service Training Centre, Jalandhar City.
Revolt of 1857; World Maps.	Refresher Programme for Teachers (15/10/1990-	22/10/1990.	In-Service Training Centre, Jalandhar City.
Revolt of 1857; World Maps.	Refresher Programme for Teachers (30/09/1991-	07/10/1991.	In-Service Training Centre, Jalandhar City.
Revolt of 1857; Historical Maps.	Refresher Programme for Teachers (31/08/1992- 11/09/1992).	07/09/1992.	In-Service Training Centre, Jalandhar City.
Revolt of 1857; Historical Maps.	Refresher Programme for Teachers (12/10/1992- 23/10/1992).	19/10/1992.	In-Service Training Centre, Jalandhar City.
I.A.S. Civil Services (Main) Examination 1992. (Ten Lectures)	Invited Lectures on Modern Indian History.	October 1992.	All India Services Pre- Examination Traini ng Centre for Scheduled Caste and Scheduled Tribes.
'The Chicago Address' (Keynote Address).	Swami Vivekananda at World Parliament of Religions.	September 11, 1994.	Swami Vivekananda Study Circle, Ludhiana.
History of India (Four Lectures)	Invited Lectures.	April 3-6, 1996.	Centre for Competitive Examinations, D.A.V. College, Jalandhar.
'Culture of Indian Nationalism'.	Symposium.	April 14, 1996.	Akhil Bharatiya Hindu Mahasabha. Venu e: District Library, Jalandhar.
'Fraternity of Faiths'.	Seminar for groups of 80 IAS trainees of I.A.S. Professional Course, Phase II.	July 20, 1998.	LBS National Academy of Administration, Missourie.
'Values in Bureaucracy'.	Orientation Course for PCS to IAS Promotes.	July 21, 1998.	Indira Gandhi Institute of Administration, Missourie.
'Historical and Cultural Background of the State'.	Six-Week Training of 50- RR Batch of IPS Probationers.	November 30, 1998.	Punjab Police Academy, Phillaur
'Indian History'	Centre for Competitive Examinations(for Minorities.) Course held from April 16, 1999 to May 1,1999.	April 20-22 1999.	D.A.V.College, Jalennillar
'Challenges of 21st Century'.	Symposium.	February 3, 2001.	Indian Cultural Forum, Jalandhar.
'Inculcation of Values Among students, Teachers and Parents'	State-Level Seminar on Education.	May 10, 2002.	Shiv Jyoti Public School.
	Afghan Officers of Police, Ministry of Interior and	August 5, 2002.	Punjab Police Academy, Phillaur.
'History and Culture of Punjab'.	Four Weeks Training Course of IPS	December, 21, 2002.	Punjab Police Academy, Phillaur.
Review of Best Practices	Expert Review of Best Practices in Students Feedback and Support Systems in the Year of the Students. Participation in Quality Assurance.	August 10, 2006.	NAAC Banglore
Presidential address	Workshop on English anguage (Ingrichi	February 8, 2009.	Solapur University and D.A.V. Velankar College of Commerce, Solapur.
		Jan.19, 2009.	Solapur University and Dayanand College of Education, Solapur.
	Nationalism: Ethnocentric and Polycentric Aspects. Revolt of 1857; World Maps. Revolt of 1857; World Maps. Revolt of 1857; World Maps. Revolt of 1857; Historical Maps. Revolt of 1857; Historical Maps. I.A.S. Civil Services (Main) Examination 1992. (Ten Lectures) 'The Chicago Address' (Keynote Address). History of India (Four Lectures) 'Culture of Indian Nationalism'. 'Fraternity of Faiths'. 'Values in Bureaucracy'. 'Historical and Cultural Background of the State'. 'Indian History' 'Challenges of 21st Century'. 'Inculcation of Values Among students, Teachers and Parents' 'Punjab—A-Historical Prospective'. 'History and Culture of Punjab'. Review of Best Practices	Nationalism: Ethnocentric and Polycentric Aspects. Revolt of 1857; World Maps. Revolt of 1857; Refresher Programme for Teachers (15/10/1990-26/10/1990). Revolt of 1857; Historical Maps. Refresher Programme for Teachers (31/08/1992-11/09/1992). I.A.S. Civil Services (Main) Examination 1992. (Ten Lectures) The Chicago Address' (Keynote Address). World Parliament of Religions. History of India (Four Lectures) 'Culture of Indian Nationalism'. Symposium. Values in Bureaucracy. 'Values in Bureaucracy. 'Historical and Cultural Background of the State'. Background of the State'. Probationers. Centre for Cumpetitive Examinations (for Minorities.) Course held from April 16, 1999 to May 1,1999. 'Challenges of 21st Century'. 'Inculcation of Values Among students, Teachers and Parents' 'Punjab –A-Historical Prospective'. Parents' Punjab'. Revolt of 1857; Refresher Programme for Teachers (30/09/1991-11/17/01991). Revolt of 1857; Refresher Programme for Teachers (1908/1991-11/17/01991). Refresher Programme for Teachers (1908/1992-11/1991-11/17/01992-11/17/01992-11/17/01992-11/17/01992-11/17/01992-11/17/01991. Refresher Programme for Teachers (1908/1992-11/1990-11/17/01992-11/17/01992-11/17/01991). Seminar for groups of 80 Na Straines of 1.A.S. Professional Course, Phase II. Orientation Course for PCS to IAS Promotes. Six-Week Training of 50-RR Batch of IPS Probationers. Centre for Cumpetitive Examinations (for Minorities.) Course held from April 16, 1999 to May 1,1999. 'Challenges of 21st Century'. Symposium. Prospective'. Special training Course on Personnel Departments. Four Weeks Training Course on Personnel Departments. Four Weeks Training Course on Personnel Departments. Four Weeks Training Course of IPS Proba	Nationalism: Ethnocentric and Polycentric Aspects. F. 1989.

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3	O Presentation on 'Nature and Dimensions of Rising of 1857'. Chairperson.	Fifth Congress of Solapur Vidyapeeth Itihas Parishad	Feb. 17, 2009.	Matoshri Gurubasa Vva Kalyanshetti Kala v⇒ Vanljya Mahila Mahavidhya laya, Akkalkot.
3		', Invited Lecture	February 24, 2009.	D.G.B. Dayanand College of Education, Solapur
3:	2 'Police-Political Leadership Interface'.	One-Day Seminar on Police Political Leadership Interface.	July 23, 2009.	Punjab Police Acad emy, Phillau
33	3 Attended as Delegate	National Workshop on Education.	July 26, 2009.	DAV Forum Venue: India International Centre, New Delhi
34	Chairperson's Address	Seminar on 'Freedom of Solapur and Marshal Law'.	Oct. 27, 2009.	D.B.F. Dayanand C ollege of Art and Science Solapur.
35	Chairperson's Address	Workshop on revisiting history (Afternoon session).	Nov. 22, 2009.	Deccan Archaeologic⊜l and Cultura Institute, Hyderabad a nd Deshastha Rigvedi Brahmin Shik⊜hanotejak Sanstha, Solapur.
38	Address on 'National Service Scheme',	N.S.S. programme	Solapur, December 29,	Fourth Shrama Sara skara Shlvir Solapur University, 2009.
37		UGC-Sponsored National Conference on Biodiversity and Conservation of Nature and Natural Resources. (Morning Session).	Jan. 29-30, 2010.	Department of Zool ogy, D.B.F. Dayanand College of Arts and Science, Solapur.
38	Key Resource Person	Workshop on 'Itihas Samshodhana Padyati', (Afternoon Session)	January 29, 2010.	Laxmibai Bhaurao Patil Mahila Mahavidhyalaya, Solapur.
39	'The Sun in the Vedas' Chairperson.	UGC-Sponsored National Seminar on Recent Advances in Helio Physics.	Feb. 5-6, 2010.	D.B.F. Dayanand C ollege of Art and Science, Solap ur.
40	Chairperson's Address	Student History Conference.	March 15, 2010	Dayanand Kashinath Asawa High School, Solapur.
41	'Use and Abuse of Research'.	Workshop on 'Research Guidance', (Afternoon Session).	July 18, 2010	A. R. Burla Mahila Varistha Mahavidhyalaya, Solapur.
42	'Economics and Ecology of Bio-Resources-Vital Concerns'. Chairperson.	UGC-Sponsored National- Level Workshop cum Seminar on 'Bio-Resources for Bio-Industries and Economic Zoology'.	Jan. 24-25, 2011	D.B.F. Dayanand C ollege of Arts and Science, Solap ur.
43	'From a Marxist to a Composite Approach to Hintory'. (Chairperson's Address)	Akhil Maharashtra Itihas Parishad (19th Session).	Dec. 24-26, 2010	D.B.F. Dayanand C ollege of Arts and Science Solapur,
44	'Characteristics of Indian Culture'.	An Extension Lecture to Students Preparing for P.C.S.	Feb. 22, 2011	District Sainik Welfare Board, Jalandhar.
45	Presidential Address. Inaugural function.	In-Service Training Programme for Junior College Biology Teachers	May 13, 2011	HSC Board, Pune, at D.B.F. Dayanand College of Arts & Science, Solapur.
46	'Teacher's Personality Enrichment'	In-Service Training Programme for Junior College Biology Teachers, H.S.C. Board, Pune.	May 16, 2011.	Venue: D.B.F. Dayanand College of Arts and Science, Solapur.
47	'Life and Philosophy of Kumar Swami'.	Birthday celebration of H.H.Mahaswami Shri Kumar Swami	August 13, 2011.	Kumar Swami Math, Indira Nagar, Solapur.
18	'Life and Teachings of Swami Vivekananda'.	Invited Lecture.	September 20, 2011.	Vikas Nagar Society, Solapur, Venue: Ganesh Mandir
19	'Need for Translation of Varkari Sant literature from Marathi into English'.	Symposium.	September 16, 2011.	Shreyas Hotel, Pune,
0	Presidential Address	International Year of Chemistry-2011	October 4,2011	DBF Dayanand College of Arts and Science, Solapur
1	Literature'.	Preparatory session of First Marathi Sant Sahitya sammelan.	October 8, 2011.	Sri Tanpure Maharaj Math, Pandharpur.

-	52 'From Happiness to Bli	iss'. Invited lecture.	October 16, 2011.	Spiritual congregation of Virashaivas of Kurmar Swami Math, Solapur.
	53 'Human Rights and Education', Chairperson.	UGC-Sponsored Seminar on Human Rights and Education.	October 21-22, 2011	D.P.B. Dayanand College of Education, Solapur.
	54 'Swami Vivekananda'.	Invited lecture.	January 12, 2012	Joshi Bedekar Co-II-ege, Thane
5	55 'Message of Swami Vivekananda'	Invited lecture.	January 12, 2012	I.I.T. Mumbai
5	56 Presidential Address.	Legal Literacy Camp	2012	DG.B. Dayanand Law College, Solapur
5	Presidential Address. (Adhyakshiya Mantavya)	Invited lecture	March 3-4, 2012	Maharashtra Hindi Sahitya Academy and D.B.F. Dayanand College of Arts and Science, Solapur
5	Presidential Address	One-day Seminar on Recent Trends in Life Sciences	August 9,2012	Department of Microbiology, DBF Dayanand Collge of Arts and Science, Solapur
59	9 Islam Madhil Manavata V Bandhuta—Humanism a Fraternity in Islam		September 1,2012	Jama'it-e-Islam-i-Hind
60	Guest	lef UGC-sponsored National Seminar on 'Marginal Sections of Society'	September 25,2012	Tuljabhawani Mahavidyala,Tulja pur
61	I Inaugural Address as Chi Guest	ef State-level Seminar on 'Impact of Globalization on Rural Economy'	September 25,2012	Tuljabhawani Mahavidyala,Tuljapur
62	Valedictory Address	Inter-College IT-Fest	January 16, 2013	Department of Computer Science, Hans Raj Mahila Mahavidyalaya, Jalandhar
63	Vivekananda and Nehru	Invited Lecture	January 31,2013	Nehru Study Centre,B.D.Arya College,Jalandhar City.
64	Keynote Address and Cha Address on Valedictory function	ir. National Seminar on Makers of Modern India	February 22- 23,2013	Abasaheb Garware College, Pune
65	Keynote Address	National seminar on 'Swami Vivekananda and his views on Women Empowerment'		CHME Society's Bhonsla Military College,Rambhoomi Nashik (Maharashtra)
66	Presidential Address	National Seminar on 'Reconstructing Roles and Reoponsibilities of Intelligentsia in Modern World: A Critique of Swami Vivekananda's Ideas'	March 24, 2014	Swami Vivekananda Study Centre(UGC approved) Radha Krishan Arya College, Nawanshahr
67	Presidential Address	Netaji Jayanti Celebrations – 118 th birthday of Netaji Subhas Chandra Bose	January 23,2014	National Martyrs' Memorial Committee, Jalandhar
68	Samvad - Presentation at DAV Principal's Conclave. Theme: Quality Concerns in School Education	DAV University: Benchmarking Excellence	April 27,2014	DAV Public School, New Simla
69	Chief Guest	Inter-college Faculty Development Programme	May 3,2014	Hindu Kanya College,Kapurthala
70	Guest Lecture		August 29,2014	DAV College, Jalandhar City
71	Chairperson, Technical Session V (Skill Developme Centre). "Role of industry- academia interface in promoting education."	nt NAAC Sponsored Two-Day National Conference on "Role of Governance Leadership and Management for quality enhancement in Higher educational institutions'	September 6,2014	Hans Raj Mahila Mahavidyalaya, Jalandhar City
72	Inaugural Address	Workshop on "Interfacing Innovation and IPR for Diffusion of Technology"	September 12,2014	DAV University, Jalandhar
73	Guest Lecture	Swami Dayananda's contribution to Indian Society. organised by Swami Dayanand Stud	November 6,2014	Doaba College, Jalandhar City

		Centre(UGC sponsored).		
74	President's Address at Annual Prize Distribution	Sanskrit and Sanskriti	March 29, 2015	Shri Guru VirjanandaGurukula Mahavidyalaya, Ka⊯tarpur
75	Key speaker on Itihas Diwas	Siddha-Natha-Yogi Parampara Ka Jalandhar Se Sambandh	June 11,2017	Bharatiya Itihas Samkalan Samiti (Punjab)

Convocation Addresses

Sr. No.	Educational Institution	Date	
1.	Lajpat Rai DAV College, Jagraon, Punjab	March 22, 2015	
2.	B.D. Arya Girls College, Jalandhar Cantt	March 31, 2015	
3	Sant Namdev Girls College, Jalandhar City	April 16,2 017	

RECENTLY DELIVERED THE PRESTIGIOUS PROF ARCHANA SHARMA MEMORIAL LECTURE AT RKMIC, DATED 27th JULY 2016.

ON THE EDITORIAL / ADVISORY BOARDS OF RESEARCH JOURNALS/PROCEEDINGS

- Indian Streams Research Journal, Solapur (ISSN:2230-7850). Inaugural Issue
- Emphasis, A Journal of Social Science, B.D. Arya College, Jalandhar Cantt. (ISSN 22308258)
- Research Spectrum. A Peer-Reviewed National Journal, Solapur(ISSN 0976-5964).
- 4 Contemporary Research in India. A peer-reviewed multidisciplinary International Journal, Solapur (ISSN:2230-7850).
- Chief Editor, Dayanand Law Journal, Damani Gopabai Bhairuratan Dayanand Law College, Solapur. (ISSN- 2250-186X).
- 6 Proceedings of the National-Level Workshop cum Seminar on 'Bio-Resources for Bio-Industries and Economic Zoc January 2011, Solapur, Maharashtra, India.
- 7 Chief Editorial Consultant, DAV International Journal of Science. Online and Print Version. ISSN (Print) 2277 -5536 ISSN (Online) 2277- 5641.
- 8 President, Editorial Board, Trends in Life Sciences. An International Peer-Reviewed Journal ISSN SSN 4731(Print)2319-5037(online).
 - On the Advisory Board of Socialistas Galaxia, A Peer Reviewed Annual Research Journal S Of Social Sciences, PCM S D College for Women, Jalandhar City.

RADIO/T.V PRESENTATIONS

Interactive Radio Counseling

Provided Interactive Radio Counseling to IGNOU students in Live Shows conducted by All India Radio, Jalandh ar for about five years before 2006.

Radio and T.V. Programmes:

Participated in about 200 programmes of All India Radio and Doordarshan as:

- Compere
- Subject Expert,
- Book-Reviewer, and
- Script Writer for documentaries and features .Some of these have been included in the national pool and one in the International Pool.
- Panelist for selection of T.V. Programmes on DD Jalandhar, 2007-2010.
- Selected for whetting scripts of Political Parties for broadcast during Punjab State Legislative Assembly Elections, January 29, 2002.

Script writing for T.V. documentaries in National Network Programmes.

- Punjab: Envious Past, Glorious Future (55 minutes), May 20, 1988.
- 2. Guru Tegh Bahadur : Prophet of Hope (25 minutes), December 13, 1988.
- 3. Hari Mandir: Abode of Bliss (25 minutes), October 4, 1989.
- 4. Great Masters: Dr. S.L. Mishra (25 minutes), October 4, 1989.
- 5. Panjab University, Chandigarh (45 minutes).
- 6. Ornaments of Punjabis (a ten minute script rendered into English).
- Bhagat Singh: A Life Sacred Beyond Words (25 minutes) May 1990; 7. Telecast many times on Doordarshan.
- Maharaja Ranjit Singh: Man of Destiny (18 minutes), June 1990. Telecast many times. 8.
- Sheetal Chhaya (20 minutes), July 11, 1991. 9
- 10. Swami Vivekananda (30 minutes). Telecast on Jalandhar Doordarshan. January 12, 1990.
- 11. Swatantra Sangram Ke Amar Senani (On Lala Lajpat Rai), (20 minutes), January 28, 1992.
- Photo feature on Subhash Chandra Bose (Jalandhar, August 19, 1994). 12.
- 13. Maharaja Ranjit Singh (Telecast on Jalandhar Doordarshan alone) June 1994.
- 14. Guru Tegh Bahadur (telecast on Jalandhar Doordarshan alone).
- Jivan Ate Maut (on the death of Morarji Desai), April 10, 1995. 15.
- Mother Teresa (on the death of Mother), September 5, 1997. 16.

Women in Freedom Struggle, Date not known.

18. Jallianwala Bagh (in Punjabi), April 13, 2007.

*Note: T.V. documentary on the Golden Temple was included in the International pool. Radio Features:

 The Wheel Moves on (selected by AIR, Jalandhar for National competition of Akashvani features).

20. On Lala Lajpat Rai, sometime in 1997.

21. On Dr. Arur Singh (an unknown martyr of Jalandhar), sometime in 1997.

On Bhagat Singh, March 23, 1997.

23. Interface with a private Radio Channel in Canada in a live show, August 2004.

'Note: Both Doordarshan and Akashvani have telecast/ broadcast programmes on my life and achieve monts.

Administrative Work

As first Registrar, DAV University Jalandhar, I laid the basis of physical, academic and administrative structure of the University, with devotion, dedication and utmost sincerity.

As Secretary, Dayanand Institutions, Solapur

- Initiated multiple projects to improve the academic graph of Dayanand Institutions; promoted research; organized national and state-Level Conferences; started three Journals in the disciplines of Law, Commerce and Science; created History Museum; established two Research Centers- Centre for Preservation of Heritage of Maharashtra and Centre for Preservation of Classical Sanskrit and Modi Scripts, etc. DBF Dayanand Arts and Science College was adjudged by UGC as 'College with Potential Excellence' under XI plan.
- Initiated steps for competency enhancement of teachers; developed mechanism to impact higher values of life; made appointments purely on merit resisting pressures of external agencies; got permanent affiliation for DGB Dayanand Law College; undertook organizational reforms to bring qualitative change, notivated staff and mobilized resources.
- Constructed Law College Hostel, Physics Block (first floor), washroom for girls (Law College), bo undary
 wall of Rambhou Joshi High School, Karkamb; renovated laboratories, administrative office, staff room,
 boys' and girls' hostels and other buildings; provided for clean drinking water facility, replaced sewerage
 line; planted about 1000 trees in College campus, including 250 teak wood trees; laid five lawns three in
 College and two in bungalow.

As Principal

- Encouraged the Faculty to undertake research activities. Synergized study with student placements.
- Helped in promoting and sustaining the higher values of life among students through personal example, moral discourses, extension Lectures and cultural presentations. Sensitized students to social issues and arranged motivational programmes.
- Created teaching-learning environment in the Campus to produce best results in University Examinations.
 Promoted Sports and extracurricular activities. Arranged donations for the education of the poor but brilliant students with the help of members of the faculty and outside donors.
- Represented College in Education meets in Kenya and Ethiopia. Addressed Principal's Workshop on Moral Values at Guru Nanak Dev University, Amritsar. Prepared College Brochures and other literature. Invited by NAAC, Bangalore as an Educational Expert. Organized National/ State-Level Conferences.

As Lecturer

- Editor, College Prospectus, 1988-2008.
 - Editor, 'Social Sciences' section of The Beas, (College Magazine)1985-1989.
- Editor-in-Chief, College magazine 'The Beas', 1990-2008.
- Produced special issues on the Khalsa Tercentenary Celebrations, Miri-Piri, Maharaja Ranjit Singh's Coronation and Quadricentennial Celebration of the installation of Sri Guru Granth Sahib.
 - In-charge, Yoga team, Lyalipur Khalsa College, Jalandhar, 1995-97.
- Prepared students for Quiz competitions, debates and declamation contests.
- Coordinator and Stage Secretary, Annual Convocation and Prize Distribution Functions, Lyallpur Khalsa College, Jalandhar, 1998-2005.
 - Member of various College Committees from time to time.
 - Prepared proposals/reports submitted to UGC/GNDU from time to time

NAAC Activity

- Coordinator of the Steering Committee for assessment and accreditation of Lyallpur Khalsa College
 Jalandhar (LKC) by NAAC. Prepared Self-Study Report and worked out strategies at the time of
 validation by the Peer Team. The college got A+ with highest-ever percentage in the country.
- Coordinated two-days NAAC workshop of College Principals on 'Quality Assurance in Higher Education' held at Lyallpur Khalsa College, February 26-27, 2004.
- Provided expert Review of Best Practices in Student feedback and Support Systems in the Year of the Student Participation in Quality Assurance, 2006. Participation acknowledged in Best Practices in Series 5 Appendix-2, a NAAC publication, Bangalore, 2007.

Involvement in Faculty Selections

- Army Public School, Jalandhar Centre as a Subject Expert.
- Lyallpur Khalsa College, Jalandar as Principal.
- Dayanand Institutions, Solapur as Local Secretary.

Coaching of I.A.S. / I.P.S. Aspirants (Under Government Scheme)

- Provided coaching to I.A.S. aspirants at All India Services Pre-Examination Training Centre For Scheduled Tribes (Ministry of Welfare, Government of India) at Guru Nanak Dev University, Amritsar.
- Provided coaching to I.A.S. aspirants at Centre for Competitive Examinations (UGC Sponsored)-DAV Col Tege, Jalandhar,

Youth Activities / Social work

- Selected for participation in Youth Leadership Training Camp, organized by Panjab University, Chandigar h at Tourist Home, Elgine Hall, Dalhousie, May-June 1969. Adjudged Best Poet and Writer of the Camp.
- Provided freeship, Braille and other educational facilities to the blind students of Andh Vidyalaya, Jalandh ar, 2005-2008.
- Discussed strategies as Member, Youth Welfare Advisory Committee of Guru Nanak Dev University, Amr Itsar, 2006-2008 for channelising the energy of Youth into meaningful social activities and sports.
- Involved students in tree plantation and blood donation programmes and created awareness about ecological issues.
- Motivated students to personally carry gifts and eatables to social welfare institutions like Pingla ghar and Apahij Ashrama, Jalandhar.
- Planted about 1000 medicinal and ornamental trees in 63-acre campus of Dayanand Institutions, Solapur during 2008-2012.
- Motivational lectures to hostelers in Dayanand Institutions, Solapur, 2009-2011.

Head Examiner / Examiner / Paper Setter / Moderator

- Prepared Question Bank for State level Talent Search Examination, 1980.
- M.A./B.A. Examiner or Paper Setter for Guru Nanak Dev University, Panjab University, Chandigarh and Punjabi University, Patiala, from 1971-1974,1976-2005.

Miscellany

- Founder, Sarve Bhavantu Sukhinah, a spiritual organization on the rolls of Freedom, Justice and Peace S ociety, U.S.A.
- Formerly Director, 'Jalandhar through Ages', a project of Bharatiya Itihas Sankalan Samiti. (Punjab).
- Joint Editor, Ham Bharati (a Hindi monthly, now defunct), 1972-73.
- Chief Guest, Exhibit of Armaments by Solapur Police, December 30, 2008.
- Chairperson, Science Exibition, Dayanand Kashinath Asawa High School, January 5, 2009.
- Guest of Honour at PNB function, 'Grahak Melawa', Solapur, February 14, 2009.
- Chief Guest, Annual Prize Distribution, Dayanand Kashinath Asawa High School, January 26, 2009.
- Established Centre for Preservation of Heritage of Maharashtra, D.B.F. Dayanand College of Arts and Sci ence, Solapur, 2009.
- Established Centre for the Promotion of Classical Sanskrit and Modi and Brahmi Scripts, D.B.F. Dayanand College of Arts and Science, Solapur, 2009
- Established History Museum at Dayanand Institutions, Solapur, 2009.
- Chief Guest, Dayanand Cooperative Society Functions, 2009-2011.
- Guest of Honour at Manorama Sahitya Sammelan, December 26, 2009.
- Chairperson, Celebration of First Anniversary of Bharat Swabhiman Trust, Solapur. January 5, 2010.
- Chief Guest, Pushpa Gupta, Dayanand Model School, January 1, 2010.
- Chief Guest, Historical Exhibition, Solapur, January 23, 2010.
- Chief Guest, Ideal Teacher Award function of Rotary Club of Solapur, North-East, Solapur, June 29, 2010.
 Chief Guest, Ganesha Utsava, Manorama Cooperative Bank, September 21, 2011.
- Chief Guest, Science Exhibition in the International Year of Chemistry, D.B.F. Dayanand College of Arts and Science, Solapur, December 16-17, 2011.
- Chief Guest, Annual Prize Distribution Function, 2011-2012, Dnyan Prabobhani Balvikas Mandir Prashala, Solapur, January 9, 2012.
- Chief Guest, 52nd Annual Prize Distribution Function, 2011-2012, Dayanand Kashinath Asava Prashala, Solapur February 11, 2012.

Chief Guest, National Association for the Blind(Solapur Branch), July 9,2012.

Chief Guest, Prakashan Sohila - 'Kille Solapur' by Lata Aklujkar, August 14,2012.

Chief Guest, Prakashan Sohila- Manasik Tana-Tanav Ani Yoga Sanskara, by Bhagavat Dalvi, Uplab Mangal Karyalaya, Solapur, August 29, 2012.

Addenda:

- Work on Swami Vivekananda figures in National Library of Australia's online catalogue.
- Work on the Khalsa figures in International Bibliography of Sikh Studies (Springer, Netherlands). It is available in the South Asian Collection of the library of School of Oriental and African Studies.
- Observations on 2nd Assembly of World Religions, San Francisco, 1990 have been used as a Prolegomenon to Chapter one in its proceedings published from New York, 1990.
- Review of Dancing with Shiva by Satguru Sivaya Subramuniya Swami, founder of Hindui m Today, has been used extensively in American Universities for Introducing the book.

(Satish K. Kapoor)

Professor Ashok Sahni is currently ONGC Chair and Professor Emeritus (Panjab University, Chandigarh), and has held Honorary Professorships at IISER Mohali and the Central University of Punjab, Bhatinda. He is a Fellow of several prestigious Scientific Academies and Societies including the Third World Academy at Trieste, Italy; Humboldt Foundation, Germany; Associe Etranger Geol. Soc. France, (Paris); Hon. MSVP, USA, and is also a Fellow of all the three Indian Science Academies.

He was a member of the Science and Engineering Research Council, an apex committee of the Department of Science and Technology, New Delhi and Chairman of the DST Earth Science the Programme Advisory Committee. More recently he served on committees as Chair/member of the Inspire Faculty programme (Earth Sciences), and the MOES PAMC respectively. He was appointed Chairman of the Governing Body of the Birbal Sahni Institute of Palaeosciences, Lucknow and member of the Governing Body of the Wadia Institute of Himalayan Geology, Dehra Dun. He was also elected President of the Electron Microscope Society of India and served as Director, Regional Sophisticated Instrumentation Centre (RSIC), and later Dean of University Instruction Panjab University, Chandigarh. He has been a member of the National Committee on International Geological Correlation Projects (IGCP) and a national and international leader for several field programmes of the UNESCO initiative.

His visiting assignments included a Visiting Professorship at the University of Bonn, Germany (Spring Semester)1996, a short term Smithsonian Fellowship to work at the National Museum of Natural History, Washington D.C.1998, re-invitations by the Humboldt Foundation, Germany and several short term visits to the Natural History Museum, Brussels with sponsorship from the National Geographic Society and Leakey Foundation (2006 to 2014).

Prof. Ashok Sahni started his professional career in 1963 as a research assistant to Prof. Preston Cloud at the Department of Geology and Geophysics, University of Minnesota, Minneapolis working on palaeo-atmospheres and community structures of Precambrian microbiota. In 1968, he obtained his Ph.D. in Geology from the same Institution having undertaken pioneering work on Mesozoic mammals and vertebrate faunas from the Cretaceous Judith River Formation of Montana. His thesis was published as a separate Bulletin by the American Museum of Natural History, New York in 1972.

He returned to India in 1968 and with the help of a small but dedicated group of research scholars, he attempted to tackle a few outstanding problems and challenging areas in Earth Sciences in India using a multi-pronged approach involving not only vertebrate palaeontology but allied disciplines as well. His major scientific contributions involve: the record and description of the earliest post India-Asia collisional vertebrate assemblages from the Middle Eocene of Northwest India and Kachchh. He showed the utility of these assemblages in the timing of the collision process of India in geodynamic Plate Tectonic models; the role of fossil arvicolid rodents in documenting palaeoclimatic fluctuations in the Neogene/Quaternary Karewas of Kashmir Valley; description of Siwalik microvertebrates, adapid primates (NATURE 1979 along with P.Gingerich) and hominids from new localities in Himachal Pradesh and Uttarkhand. Along with his students, he documented the earliest global record of evolution of whales based on material from Jammu and Kashmir and Kachchh. His work with a French team radically changed earlier concepts about the age and duration of the Deccan Traps based on fossil microvertebrates, Ar/Ar geochronology and magnetostratigraphy. He was primarily responsible (along with University and GSI scientists) for recording dinosaur nesting sites from widespread areas of peninsular India making this find as one of the most spectacular in a worldwide context. He pioneered work in India in biomineralization/biomechanics applying Scanning electron microscopic techniques to biominerals (apatites and calcites). He has over 275 publications including 11 scientific contributions in prestigious journals such as Nature and Science with a Google Citation Index: h index=40; i10 index= 108.

He has keen interest in the popularization of science and has been involved in several interactive programmes with students from schools and colleges. On the request of Lt General Jacobs, then administrator of UT, he set up the Dinosaurs of India gallery at the Government Museum Sector 10 Chandigarh in 2005. Currently he is consultant to the Evolution Park and Gallery at Science City, Kapurthala. His book on Indian dinosaurs published by the National Book Trust (2001) has achieved widespread popularity and now has a 2nd edition (2016).

He is a recipient of the INSA D N Wadia Medal (2009) for his contributions to Earth Sciences. He was also awarded the prestigious National Geoscience Award (2009) by the Vice President of India on behalf of the Ministry of Mines in February 2011 for lifetime achievement and the Life Time Achievement Award by the Electron Microscope Society of India in 2014.



Rules for Master's Degree Programme
(Applicable w.e.f. Academic Session 2017-18)

Central University of Punjab, Bathinda

(Established under the Central Universities Act, 2009)

NAAC ACCREDITED 'A' GRADE UNIVERSITY

Rules for Master's Degree Programme (Applicable w.e.f. Academic Session 2017-18)

(Sub - Section (1) (b) of Section 28 of the Central Universities Act, 20 09)

1. TITLE AND COMMENCEMENT

- 1.1 These rules shall be called the Rules of Master's Degree Programme hereinafter re-ferred to as the Programme, and shall be applicable to all the Master's Degree Programmes unless otherwise stated.
- 1.2 Subject to the overall control of the Academic Council, the Programme shall be adm inistered by the concerned Centre/School.
- 1.3 These rules shall come into force with effect from Academic Session 2017-18.

2. DURATION

- 2.1 The minimum duration for completion of each Master's Degree Programme shall be 04 semesters (2 Academic Years) or otherwise as directed by the UGC from time to time.
- 2.2 A student who for whatever reasons is not able to complete the Programme within the normal period or the minimum duration prescribed as above, may be allowed two years period beyond the normal period to clear the backlog to be qualified for the degree.
- 2.3 In exceptional circumstance a further extension of one more year may be granted (as per UGC guidelines). The exceptional circumstances shall be:
 - (i) More than 6 month hospitalization,
 - (ii) Death of a supporting parent/guardian,
 - (iii) Disturbed conditions as declared by the Government.
 - (iv) Or any other reason with the approval of Vice-Chancellor (under the conditions as stipulated fine etc.)

During the extended period the student shall be considered as a private candidate and also not be eligible for ranking.

2.4 A Semester(s) may be declared a zero Semester(s) in case of a student who could not continue with the Programme during that period due to illness and hospitalization or due to accepting a foreign scholarship/fellowship or any other valid reason accepted by the Vice-chancellor subject to the fulfillment of requirements as laid down by the relevant rules.

The maximum duration for completing the degree shall be as prescribed by UGC from time to time.

3. NUMBER OF SEATS

3.1 The number of seats in each Master's Programme, shall be as approved by the Academic Council of the University for each session.

4. ADMISSION CRITERIA

- 4.1 Admission of a candidate to the Programme would be made only in its first Semes ter. He/she shall be promoted to the subsequent Semesters of the Programme after completing necessary formalities as specified under Clause 8.
- 4.2 In exceptional cases, lateral entry of a candidate shall be considered for admissio to a later Semester of any Programme with the approval of the Competent Authority.
- 4.3 International students may be admitted to this Programme according to the policy gui delines laid down by the University.
- 4.4 No candidate shall be eligible for admission to the Programme if he/she is already registered for any other full time Programme of this University or any other University/Institute. However, students admitted to evening Post Graduate Diploma Programmes shall be permitted to pursue any regular Programme in other Institutions. Students admitted to a regular Programme in the University shall also be permitted to pursue part-time evening Certificate/Diploma Programmes of professional nature in the University or other Institutions, provided that permission has been obtained from Competent Authority of the University.

5. ELIGIBILITY FOR ADMISSION

- 5.1 A candidate shall be eligible for admission to the Programme in any discipline provided he/she fulfills the minimum eligibility conditions as notified by the University.
- 5.2 For SC, ST, OBC (Non Creamy Layer) and Persons with Disabilities (PWD) candidates, relaxation of 5 percent of marks shall be given in eligibility.
- 5.3 The policy of the Government of India and the guidelines of the UGC regarding reservation of seats for candidates belonging to Scheduled Castes, Scheduled Tribes, OBC (NCL) and for Persons with Disabilities (PWD) candidates shall be implemented. Any other reservation (Kashmiri migrants, wards of defense personal etc.) shall be applicable as per UGC/Govt. of India guidelines and as adopted and notified by the University from time to time.

6. PROCEDURE FOR ADMISSION

- 6.1 The University shall invite applications from eligible candidates for admission to the Programme in each Academic Session, giving details of the Academic Calendar, number of seats available, eligibility criteria, prescribed fees, etc.
- 6.2 Admission to the various Programmes of studies shall be made on All-India basis and on the basis of merit, either through Common Entrance Test conducted individually by the University or in combination with other Universities, or on the basis of marks obtained in the qualifying examination in such courses where the intake of students is small.
- 6.3 The admission schedule to the Programme shall be advertised in leading newspapers at the national level and also on the University website. The entrance test shall be conducted at national level at the designated Centers to be decided by the University depending upon the number of students opting for a Centre.
- 6.4 The selected candidates shall submit the prescribed fee and other relevant documents to the University within the stipulated time.

7. PROGRAMME STRUCTURE

- 7.1 University shall follow a Choice Based Credit System (CBCS) in all its Master's Programme. The Programme shall consist of at least 90 credits (except M.Tech., M.Ed., LL.M. and M.Pharm.) covering theory and practical courses, a compulsory seminar and research projects/project based on the industrial research in the relevant discipline.
- 7.2 The credit and other requirements for professional Programmes such as M.Tech., M.Ed., LL.M and M.Pharm. shall be determined as per requirements of respective National Regulatory Bodies for these Programmes.
- 7.3 Subject to the approval of Academic Council, the syllabus for the courses and the i nstructional designs to be used shall be prepared/prescribed and published by the respective Board of Studies and subsequent approval by School Boards and Statutory Bodies of the University.
- 7.4 Courses in a Programme may be of three kinds: Core, Elective, and Foundation as per the UGC guidelines on CBCS. However, it is mandatory to take two interdisciplinary Courses in a Programme.
- 7.5 Basic Courses on Computer Science and Statistics will be taught by the Centre of Computer Science & Technology and Centre for Mathematics and Statistics.
- 7.6 A candidate may be required to take additional non-credit courses on the recommendation of Supervisor, Coordinator of Centre and the Dean of concerned School. The Candidate may also register for additional non-credit course, if he/she so desires. The marks for such courses shall not be counted towards CGPA.
- 7.7 The evaluation of Dissertation/Project shall be done as per Clause 18 and no marks shall be awarded. For uniformity, evaluation of the Dissertation/Projects shall be carried on the following parameter:
 - (a) For a Semester results, the Research Credits shall be evaluated on 2-point scale as Satisfactory/Unsatisfactory. These will be mentioned on the mark sheet/transcript but not be counted towards Overall Grade Point Average.
 - (b) The final result of the Project/Dissertation will however be on a 5-point scale evaluated as Excellent, Very Good, Good, Average and Unsatisfactory. These will be mentioned on the marks sheet/ transcript but not be counted towards Overall Grade Point Average.
- 7.8 The topic of the Dissertation/Project shall be approved by the Centre through the following committee consisting of the following members on a proposal submitted by the student through his/her supervisor:
 - (a) Dean of the School
 - (b) COC/OIC
 - (c) Supervisor
- 7.9 The topic of Dissertation/Project, once decided shall ordinarily remain unchanged during the whole Programme. However, the Dean of the concerned School on the recommendation of Centre Coordinator and Supervisor of the student may permit a modification in the topic, if

- considered necessary. Major changes can be made in the topic only after the approval by the Vice-Chancellor.
- 7.10 The allocation of Research Supervisor/Guide should be done at the level of the Centre through AAC (Academic and Administrative Committee of the Centre) with the approval of the Competent Authority.
- 7.11 A student who does a part of his/her Dissertation/Project work at any Centre other than the Centre concerned (External Centre) shall be required to submit a progress report on the work carried out by him/her as well as a certificate regarding regular attendance at the External Centre duly approved by the external Supervisor (s) as well as by the Internal Supervisor(s).

8. REGISTRATION AND PROMOTION TO THE NEXT SEMESTER

- 8.1 Every student admitted to the Programme shall get registered at the beginning of the 1st Semester of the Programme in the Centre by completing the necessary formalities as per the schedule announced by the University. Proforma of Registration Form attached as Annexure-I.
- 8.2 A student shall be promoted and permitted to get registered in the next Semester provided he/she:
 - 8.2.1 Fulfils the prescribed requirements of continuous internal assessment/project work/practical work and attendance as required under the regulations in the previous Semester.
 - 8.2.2 Passes at least 50% of Courses in the Semester concerned.
- 8.3 A student found not eligible to appear in the End-Semester Examination of a Course of the Programme due to shortage of attendance or those who fail in more than 50% of the prescribed Courses in any Semester shall be required to repeat the Courses and take readmission in respective Semester of the Programme in the following Academic Year.
- 8.4 A student shall not be permitted to register in the subsequent Semester of a Programme unless he/she has been a registered student of the immediate preceding semester and has pursued the Course(s) of that Semester as a regular student.
- 8.5 In each Semester, a last date shall be fixed and notified in the beginning of the Semester after which admissions/re-admissions registration shall not be ordinarily made.
- 8.6 If a student is not registered or did not get readmission within the one month of date notified in the beginning of the Semester his/her name will be automatically stuck off from the University roll.
- 8.7Under special circumstances (in case of a student who could not get registered/readmission/promotion with the Programme within one month of the start of Semester due to illness, hospitalization, natural calamities, or any other valid reason accepted by the Vice-Chancellor) the students may be allowed late registration/re-admission by a specified date, by paying a late fee fixed for the purpose, along with the other prescribed fees. However, his/her attendance shall be counted from the date of the start of the Semester. Those students who get late admission due to the admission process there attendance shall be counted from the date of the start of the class notified by the Admission Section.

- 8.8 Those students who were not allowed to sit in the End Semester Examination due to the shortage of attendance but cleared more than 50% of their remaining courses/subjects are required to register in the respective subject along with the regular students of following/succeeding batch to fulfill their attendance requirements after paying the prescribed fee. The students must submit the Registration Form in the Registration Section at the start of the Semester. He/She will be required to appear in the following components of examination:
 - a) Both MST, each one having 25% weightage.
 - b) End Semester Examinations, having 25% weightage.
 - c) Score of the surprise tests (10%), Term Paper (10%), Assignment(s) (5%) will be taken as such.
- 8.9 No student shall be allowed to attend the classes unless he/she is registered in a particular Semester and paid the requisite fee.

9. ATTENDANCE

- 9.1 A candidate to be eligible for Continuous Internal Assessment/End Semester Examination of a Course or a complete Semester shall have a minimum of 75% attendance in that Course in a Semester in addition to satisfying all other relevant conditions laid down in the rules.
- 9.2 Attendance of the students should be displayed every month at the Centre level. For appearing in the End Semester Examination, each student through its Centre shall submit the Examination Form clearly mentioning "whether student fulfils attendance requirements (Yes/No)" before 10-days of the start of End Semester Examination in the format given by the Examination Section. The Centre Coordinator and Dean of the concerned School shall work out the model to conduct the Seminar/term papers equivalent to some percentage of the attendance. The shortage of attendance may be condoned only upto 65% with the approval from the Dean Academic Affairs. Only academic component shall be considered to compensate the shortage of attendance, viz. seminars, term papers, assignments etc. Exemptions shall not be granted for attendance below 65%.
- 9.3 The teacher concerned shall be responsible for maintaining the record of attendance of the students registered for the Course.

10. SUSPENSION/WITHDRAWAL

10.1 A student suspended or debarred from attending the classes due to any reason, whatsoever, or having withdrawn from a Semester (s) on medical grounds or for any other cogent reason, shall have to seek re-admission in the appropriate Semester in the next Academic Session as a regular student. Such student(s) shall have to meet the prescribed requirement of attendance in each Course in the Semester.

11. FEES TO BE PAID

11.1 The amount and mode of payment of fees payable at the time of admission and registration during subsequent Semesters, at the time of examination and refund of fee under special circumstances will be governed by the relevant rules of the University in this regard.

12. MEDIUM OF INSTRUCTION AND EXAMINATION

- 12.1 The language for the instruction and examination shall be English.
- 12.2 In cases where the Programme pertains to any language other than English, the instructions and examinations would be in that language.

13. EXAMINATION AND EVALUATION

- 13.1 A student shall be continuously evaluated for academic performance in a Course through a surprise test (s), pre-announced tests, tutorials, practical work, assignment (s), term paper, field work, seminar (s), periodical tests, MST (s) and the End-Semester Examination, as prescribed in the examination scheme of the respective Course and duly approved by the authority concerned.
- 13.2 Following evaluation procedure shall be applicable:
 - 1. Continuous Assessment:
 - a) Surprise Tests will be of aggregate weightage of 10%. There will be no limit for the surprise tests of MCQs type and the average of two best tests will be considered for the evaluation. These tests will be held in the class rooms during scheduled teaching periods without any prior announcement or date sheet. Record of the answer sheets duly evaluated and signed by the Course Coordinator will be maintained by the Centre.
 - b) Term paper will have the weightage of 10%. The term papers shall not be a cosmetic affair. The students will be given different topics to write on. The minimum and maximum length of the term paper and due date of its submission will be decided well in advance and will be communicated to the students at the start of the teaching. The Course Coordinator must ensure that work done by the student is original i.e. no copy-paste has been done. Proper record of the term paper will be maintained by the Centre.
 - c) Assignment(s) will be of 5% weightage. All details regarding the assignments i.e. minimum and maximum marks, length etc. and due date of its submission will be decided by the Course Coordinator.
 - d) Mid Semester Tests: Based on two pre-announced tests at the level of the Centre. These tests will be subjective type and will contain five medium answer type questions and two long answer type question. Each MST will carry 25% weightage and total weightage of MSTs will be of 50%.
 - I. The duration of MST will be one hour and it will be conducted in the class room. After the examination, normal teaching will continue for the remaining day. The format of the examination, recommended by the committee, is as under:

25 marks = 60 minutes

 O2 Long answer type questions – 05 marks each (One page answer) 05 medium answer type questions – 03 marks each (half page answer) (All are compulsory)

- III. End Semester Examination: End Semester Examination will be conducted online in the University Computer Centre. End Semester Examination will be based on MCQs/fill ups. Weightage of End Semester Examination will be of 25%.
- 13.3 All the examinations except End Semester Examination shall be conducted by the teacher(s) concerned under the overall supervision of the Centre Coordinator. The Coord inator of the Centre shall submit the award lists of all Courses of the Programmes offered in the Semester to the Controller of Examinations through the Dean of the School within seven days of the completion of examination (Proforma for Award List attached as Annexure-IV).
- 13.4 In case a student could not appear in any component of the continuous assessment of a Course due to medical reasons or under other exceptional circumstances (supported by documentary evidence), a separate examination of that component may be arranged by the concerned Centre Coordinator before the beginning of End Semester Examination.
- 13.5 The End Semester Practical Examination (wherever applicable) shall be held before the theory examinations as per the University calendar.
- 13.6 A student shall be permitted to appear in the End-Semester Examination as per the Conduct of Examination Rules after filling up the prescribed Examination Form, payment of the prescribed examination fee, satisfying the attendance requirement and fulfilling other eligibility criteria. (Examination Form attached as Annexure-II & III)
- 13.7 A student should obtain pass percentage (40%) in "aggregate" (MSTs + Surprise Tests + End-Term). But for clearing the subject, it is compulsory to appear in the End Term Examination.
- 13.8 Unless prescribed in the Rules and the Scheme of Examination of a particular Programme, a candidate shall be deemed to have completed his/her Courses successfully.
 If he/she obtains minimum Grade point of 4 as per the following 10 point system in each course.

	Letter Grade	Grade point
0	Outstanding	10
A +	Excellent	9
Α	Very good	8
B+	Good	7
В	Above Average	6
С	Average	5
Р	Pass	4
F	Fail	0
Ab	Absent	0

0 ≤ 39.99 40 41	_		GP High Range	LG	CLASS
20,000		102		F	Fail
41	4.0	4.00	4.09	Р	Pass
	4.1	4.10	4.19	Р	Pass
42	4.2	4.20	4.29	Р	Pass
43	4.3	4.30	4.39	Р	Pass
44	4.4	4.40	4.49	Р	Pass
45	4.5	4.50	4.59	С	Average
46	4.6	4.60	4.69	С	Average
47	4.7	4.70	4.79	С	Average
48	4.8	4.80	4.89	С	Average
49	4.9	4.90	4.99	С	Average
50	5.0	5.00	5.09	C	Average
51	5.1	5.10	5.19	В	Above Average
52	5.2	5.20	5.29	В	Above Average
53	5.3	5.30	5.39	В	Above Average
54	5.4	5.40	5.49	В	Above Average
55	5.5	5.50	5.59	В	Above Average
56	5.6	5.60	5.69	В	Above Average
57	5.7	5.70	5.79	В	Above Average
58	5.8	5.80	5.89	В	Above Average
59	5.9	5.90	5.99	В	Above Average
60	6.0	6.00	6.09	В	Above Average
61	6.1	6.10	6.19	B+	Good
62	6.2	6.20	6.29	B+	Good
63	6.3	6.30	6.39	B+	Good
64	6.4	6.40	6.49	B+	Good
65	6.5	6.50	6.59	B+	Good

67	6.7	6.70	6.79	B+	Good
68	6.8	6.80	6.89	B+	Good
69	6.9	6.90	6.99	B+	Good
70	7.0	7.00	7.09	B+	Good
71	7.1	7.10	7.19	A	Very Good
72	7.2	7.20	7.29	А	Very Good
73	7.3	7.30	7.39	А	Very Good
74	7.4	7.40	7.49	А	Very Good
75	7.5	7.50	7.59	A	Very Good
76	7.6	7.60	7.69	A	Very Good
77	7.7	7.70	7.79	А	Very Good
78	7.8	7.80	7.89	А	Very Good
79	7.9	7.90	7.99	А	Very Good
80	8.0	8.00	8.09	А	Very Good
81	8.1	8.10	8.19	A+	Excellent
82	8.2	8.20	8.29	A+	Excellent
83	8.3	8.30	8.39	A+	Excellent
84	8.4	8.40	8.49	A+	Excellent
85	8.5	8.50	8.59	A+	Excellent
86	8.6	8.60	8.69	A+	Excellent
87	8.7	8.70	8.79	A+	Excellent
88	8.8	8.80	8.89	A+	Excellent
89	8.9	8.90	8.99	A+	Excellent
80	0.0	0.00	0.00	AI	Excellent
91	9.1	9.10	9.19	0	Outstanding
92	9.2	9.20	9.29	0	Outstanding
93	9.3	9.30	9.39	0	Outstanding
94	9.4	9.40	9.49	0	Outstanding
95	9.5	9.50	9.59	0	Outstanding
96	9.6	9.60	9.69	0	Outstanding
97	9.7	9.70	9.79	0	Outstanding
98	9.8	9.80	9.89	0	Outstanding
99	9.9	9.90	9.99	0	Outstanding
00	10.0	10.00	10.00	0	Outstanding

- 13.9 If a student passes in at least 50% of prescribed courses of a Semester, he/she shal be allowed to repeat the End Semester Examination of the remaining course(s) along with regular students of following/succeeding Semester without putting in any additional attendance. The marks for all other components as applicable shall however, be carried forward in such cases. The students shall be required to deposit the Examination Form along with the prescrib defee.
- 13.10 The Students, who have re-appear in Examination (absent in the End Term or having less than 40% of marks in the Examinations) will be required to appear in the following components of examination:
 - a) Both MST, each one having 25% weightage.
 - b) End Semester Examinations, having 25% weightage.
 - c) Score of the surprise tests (10%), Term Paper (10%), Assignment (s) (5%) will be taken as such.

A student shall be allowed two chances for appearing in re-appear examination per subject along with the following /succeeding batch or rules prescribed the University for the completion of the degree.

- 13.11 The students who have re-appear in 3rd Semester shall be allowed to give re-appe ar paper of Semester-III alongwith the Semester-IV examinations. However, if a student of passing out batch could not clear examination of Semester-IV and have re-appear, such student(s) may be allowed only one special chance to give re-appear examination in summer break provided such student(s) does not have any other backlog of another Semester.
- 13.12. Mercy Chance: A student who does not clear his/her backlog subject (s) as per the available chance given at Clause 13.10, on the recommendation of the Coordinator and Dean of concerned School, the Vice-Chancellor, on merit of individual case, may consider giving one final chance (mercy chance) to the student for appearing the reappear subject after paying the prescribed fee. He/she has to appear in the component mentioned at Clause on 13.10.
- 13.13 A student failing in more than 50% of the Courses in a Semester shall have to seek readmission in the appropriate Semester (following/succeeding batch) as a regular student.
- 13.14 The marks obtained in the Continuous Internal Assessment (CIΛ) shall be shown to the students by the Centre.
- 13.15 Formula for Grade point Conversion for each mark

Marks Obtained

Grade Point=

10

FORMULA FOR SGPA

SGPA=∑(Ci x Gi) / ∑Ci

Where Ci = Number of credits in the ith course and Gis the grade point scored in ith course

FORMULA FOR CGPA

CGPA=∑(Ci x Si) / ∑Ci

Where Si =SGPA of ith semester and Ci is the total number of credits in that semester

The formula for conversion of 10 point scale to percentage is as given below:

Percentage (%) marks in a Semester = Semester Grade Point Average (SGPA) X10

Percentage (%) marks in whole of Programme = Cumulative Grade Point Average (CGPA) X10

14. AWARD OF MARKS SHEET

- 14.1 On successful completion of each Semester examination, the student shall be awarded grades/grade points for that Semester indicating simultaneously the SGPA of the previous Semester(s).
- 14.2 The Marks-Sheet/Transcript of last Semester shall indicate the grades obtained and credits earned for each Semester, and Cumulative Grade Point Average (CGPA) as prescribed in th⊜ regulations duly approved by Statutory Bodies of the University.

15. IMPROVEMENT OF GRADE

- 15.1 Students who have been declared pass in a Programme shall be allowed to repeat all component of continuous assessment and End Semester Examination (as per Clause 13.10) in order to improve his/her grade/CGPA/division along with regular students in corresponding Semesters, provided that overall CGPA of degree of such a student is less than 6.0 on 10 point scale. No separate examination would be arranged for such students. Student can attempt only two theory paper from the Semester. Maximum two numbers of chances shall be given to improve.
- 15.2 Such students shall have to apply for improvement of grade/marks/division and pay the fees prescribed from time to time.
- 15.3 If the candidate improves grade/marks, then the improved grade/marks shall be taken into account for working out revised award and a revised marks sheet shall be issued to him/her. He/She has to surrender of the marks sheet issued earlier. Such improved marks will not be counted for the award of Prizes/Medals, Rank and Distinction. If the candidate does not show improvement in the grade/marks, his/her previous grade/marks will be taken into account.
- 15.4 No candidate shall be allowed to improve grade/CGPA in the practical, project work and seminar and field work.

16. RE-EVALUATION

The University has adopted the In-house Examination System i.e. Teaching, Paper Setting and Evaluation of the Answer Sheets. Every student shall be shown the evaluated answer sheet of MST(s) Examination by the Centre. End Semester Examination will be conducted online in the Computer Centre. Therefore, **there shall be no re-evaluation**. However, the student may approach Grievance Cell for redressal of his/her grievance.

17. INDISCIPLINE AND UNFAIR MEANS IN EXAMINATION:

17.1 There shall be zero-tolerance against use of unfair means and unfair practices in connection with examination and each examinee shall be required to strictly adhere to the instructions for taking examination. Non adherence to such instructions shall attract disciplinary action. For End-Term Examination, a flying squad will be constituted by the Dean Academic Affairs on the recommendation of the Controller of Examinations consisting of appropriate women members to

ensure fairness and discipline in the examination. In case of any case(s) of unfair means, indiscipline and disturbance during the examination, the flying squad will submit its report with full details of the evidence in support thereof and the statement of the candidate to the Controller of Examinations.

- 17.2 During the MST(s) Examination a flying squad will be constituted by the COC/OIC of the Centre. In case of any case(s) of unfair means, indiscipline and disturbance during the examination, the flying squad will submit its report with full details of the evidence in support ther eof and the statement of the candidate to the Controller of Examinations.
- 17.3 Use of unfair means is strictly prohibited and shall invite serious disciplinary action for anyone found using unfair means during any examination. Unfair practices and unfair means relating to examination shall mean and include:
 - Exerting pressure, coercion and undue influence for postponement and change of dates and timings of examination.
 - Threatening to the Invigilator or any other behavior amounting to insubordination as reported by the Invigilator.
 - Seeking favours from and/or threatening the examiners, paper setters, evaluators, i nvigilators, co-examinees or any other officer or staff of the university.
 - Resorting to such practices and engaging into activities that are specifically prohibited during the course of examination.
 - Keeping in possession of materials of any kind related to the subject of the examination concerned including mobile / cell phones / electronic aids, unless otherwise permitted as a component of examination and/or copying or attempting to copy from the materials in possession or from other persons within or outside the examination hall.
 - Exchanging notes, inter-changing answer scripts, helping other examinees, seeking help from and/or consulting other examinees or any other person inside or outside the examination hall.
- Attempts of impersonation including writing some other candidate's Registration Number / Roll Number in the answer paper and/or exchanging or attempting to exchange answer sheets or other materials during the course of examination.
- Sitting or occupying seats other than the one allotted to the candidate or changing the seat during the course of examination without the permission of the Invigilator.
- Boycott / walkout of the examination and or causing disturbances of any kind during the conduct of examination.
- Any other act of omission or commission as may be declared by the Executive Council as unfair means in respect of any or all the examinations.
- 17.4 Detection of unfair means, indiscipline and disturbances during the examination shall be brought to the notice of the Centre Coordinator/OIC by the Invigilator concerned in writing. The COC/OIC shall report to the Controller of Examinations without delay, each case of alleged use of unfair means in the examination with full details of the evidence in support thereof and the statement of the candidate concerned, if any. In case a candidate found using unfair means in examination refuses to make and sign the said statement, the incident shall be recorded by the Invigilator and countersigned by the COC/OIC. The answer book of the candidate found using unfair means in the examination shall be seized and the candidate may be permitted to

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write his/her examination on a separate answer book to be issued to him/her. The COC/OIC shall send both answer books to the Controller of Examinations along with his/her report.

- 17.5 All individual cases of reported use of unfair means in examination shall be referred to the Examination Discipline Committee constituted by the Competent Authority. Provided that in case of use of unfair means on a mass scale at an examination centre, the Vice-Chancellor shall have powers to cancel the examination of all the candidates appearing from the Centre concerned and order re-examination an initiate further disciplinary action against all concerned.
- 17.6 The Examination Discipline Committee shall recommend to the Competent A uthority the extent, and magnitude of punishment to those found guilty of using Unfair means in examination with due regard to the nature and extent of offence committed by a candidate in use of Unfair means and shall ensure that the punishment is commensurate to the offence committed and in accordance with the principle of natural justice.
- 17.7 All decisions taken by the Committee will be placed before the Vice-Chancellor for approval.
- 17.8 A candidate found guilty of using Unfair Means in examination by the Examination Discipline Committee, may appeal to the Vice-Chancellor, in writing, within one month of the receipt of the decision of the University; and if the Vice-Chancellor is satisfied that the represent ation merits consideration, he/she may refer the case back to the Examination Discipline Committee for reconsideration.

18. EVALUATION OF DISSERTATION/PROJECT AND VIVA-VOCE

- 18.1 Prior to submission of the dissertation/project student shall make a pre-submission presentation in the Centre that shall be open to all faculty members and research students, for getting feedback and comments, which shall be suitably incorporated into the draft dissertation under the advice of his/her Supervisor.
- 18.2 Every candidate shall submit his/her dissertation/project along with a certificate from the Supervisor (s) that the dissertation submitted is a record of original research work carried out by the candidate under his/her supervision and that the dissertation/project has not previously formed the basis for the award of any degree/diploma, or other similar titles of this or any other University and that the dissertation/project represents independent work of the candidate.
- 18.3 The Project of the Master's Programmes viz., M.A. /M.Sc. (except M.Ed./M.Tech./M.Pharm./LL.M) should be evaluated in-house by the following committee through a presentation: (Format attached at Annexure- V, VI & VII)
 - I. Internal expert nominated by Vice-Chancellor or Vice-Chancellor's nominee from the recommended list by the COC/OIC.
 - II. COC of the Centre
 - III. Supervisor
- 18.4 The Dissertation of the Master's Programme for M.Ed./M.Tech./M.Pharma./LL.M. will be sent to the external expert(s) for evaluation with the approval of the Competent Authority. On receipt of report from the external examiner, the Internal Committee of the following officials/members will hold/conduct the public defense and viva-voce of the student(s):-
 - I. Dean Academic Affairs or his nominee
 - II. Dean of concerned School
 - III. Coordinator of the Center of concerned Centre
 - IV. Supervisor

19. AWARD OF DEGREE

- 19.1 The successful candidates shall be admitted to and conferred the Degree in the respective discipline, as the case may be, provided he/she has:
 - 19.1.1 No pending dues to the University, hostel or library outstanding
 - 19.1.2 No disciplinary action pending against him/her
 - 19.2.3 Fulfilled such other conditions as prescribed under rules
- 19.2 For those candidates who have qualified for the degree in disciplines which are inter-disciplinary in nature, the University may issue the degree in the respective discipline in which they have registered and have completed their Programme.
- 19.3. The award of the Degree must compile all the rules and regulations issued by the UGC from time to time.

20. POWER TO REMOVE ANY DIFFICULTY

20.1 Notwithstanding what is contained in the Rules; the Chairperson, Academic Council/Executive Council may in exceptional circumstances and on the recommendations of the School Board concerned or an appropriate Committee on the merits of each individual case consider, and for reasons to be recorded, allow relaxation of any of the provisions except those prescribing CGPA requirement and the Clause mentioned in 19.3.

REGISTRATION FORM

Central University of Punjab

- All students of CUPB are required to complete the process of registration each semester before commencement of classes.
- On the date of registration, all students shall complete the "Registration Form". Students may contact their CoC/Programme advisors to know the courses, Seminar and Research Credits to be registered.

1.Academic Session: 2.Centre: 3.Programme: 4.Semester: 5. Name of the Student: (in block letter) (Mr./Ms./Mrs.) Courses Registered 5. No. Courses No. Theory/Practical Course 1. 2. 3. 4. 5. 6. 7. 8. Seminar (Tick mark whichever is applicable) 9. Credit/Non-Credit/Synopsis Seminar/Pre-submission Seminar/Progress Seminar Research Credits 10. Total Credits	-	e illieu by the	Student:		Providence of the Control of the Con		
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Date : Signature							

Controller of Examinations

(Examination form for Regular Students only)

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mination	Registration No.	Session	Year	Result		SGPA
				(Pass/Reapp	pear)	(if Pass)
3						

Examination form duly filled in, signed by concerned coordinator and forwarded by COC/OIC needs to be submitted to the Examination Cell.



Central University of Punjab, Bathinda

Amnexure -III.

(NAAC Accredited 'A' Grade University)

(Examination form for Reappear/Supplementary/Improvement Students only)

Important	Instructions:-
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(I) All the Columns are mandatory and to be filled (II) Student should fill his/her particulars as per Un			
Course/Programme	Academic Year	Session	Semes ter

Academic Teat Session	Semes ter
1. School Name	- Charles
2. Centre Name	and the state of t
3. Student Name (in BLOCK Letters)	Affix Recently
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0. Permanent Address (in BLOCK Letters)	
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11. Subject(s)		Course Code	*Whether he/she clear all requirements of internal Assessment? Yes/No	Næme & Sign. Of Course Coordinator
l.				
ii.				
III.				
lv.				
v.		110-2-2-11		
vi.				
vii.				
iii.				
ix.				
x.				

12. For Reappear/Supplementary/Improvement Student (Given Detail):
No. of Chance Availed Registration No. Session Year Result

13. I solemnly declare that the particulars filled in by me above are correct to the best of my knowledge and belief and if any discrepancy is found at any stage, I shall be responsible for the consequences.

Certified that

- iv. The student fulfills the requirement of lectures as per University Rules in theory and practical in each subject, separately. (Given above)

Further certified that the student has satisfied me by production of authentic documents that the statement made by him/her overleaf are correct and that he/she has a good health and bears a good moral character and that he/she has filled in this examination form in his/her own hand and has signed in my presence.

Date.....

COC/OIC (Signature)

Signature of the student

Examination form duly filled in, signed by concerned coordinator and forwarded by COC/OIC needs to be submitted to the Examination Cell.

CENTRAL UNIVERSITY OF PUNJAB, BATHINDA INTERNAL EXAM AWARD SHEET

Name of School:

Name of Course Coordinator:

Name of Centre:

Course Code:

Name of Programme:

Course Credit:

Semester:

Sr. No	Regd. No.	Name of Students	Surprise Test Best two Average	Assignment (5)	Term Paper (10)	MST- I (25)	MST- II (25)	Tota (75)
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ST: Surprise Test

MST: Mid Semester Test

Signature of Coordinator

Signature of COC/OIC

CENTRAL UNIVERSITY OF PUNJAB, BATHINDA

(SAMPLE PROFORMA FOR EVALUATION OF DISSERATION/PROJECT) <u>Confidential</u>

Ref. No.:	March Sand	X	Date:
EVALUATI	ON REPORT FOR PROJECT		
FOR M.Sc			
We have e	xamined the project of /Ms	Registration No	
of the Cent	tre forentitled		(I)
	citation	T I	
submitted in	fulfillment of the requirement for award	of M.Sc. degree in	
We recomm	nend that the project may be:		
(1.)	Accepted	1	
(2.)	Accepted with suggested modificati	ons/ corrections	
(3.)	Re-submit to undersigned after sug	AND DESCRIPTION OF THE PROPERTY OF	
(4.)	Rejected.		
Centre Coord	linator	Supaninar	Internal Export
ranne com		Supervisor	Internal Expert
		(Vic	e-Chancellor's Nominee)
etailed repo	ort:		
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entre Coordi	inator Supervisor Internal Exp	ert	
		Office Observed	I - N - N I N

CENTRAL UNIVERSITY OF PUNJAB, BATHINDA

	Name and Registration No. :	in the second
	Date of submission of project to supervisor for evaluation	
3.	Weather the student has submitted his/her project for evaluation in time (with in semester)	YES/NO (If No, the copy of approval of extension and copy of fee receipt must enclosed)
	Centre:	
	Project Title:	
	Supervisor:	
	Public defense/Viva-Voce/ Seminar	Satisfactory/Unsatisfactory
n view ecomr 1	of the satisfactory project report and its publimend/ do not recommend the student for awa	ic defense /Viva- Voce/ seminar, we rd of degree of Master of Science
entre C	Coordinator Supervisor Internal Expert	

CENTRAL UNIVERSITY OF PUNJAB, BATHINDA

<u>Date-</u>
<u>Attendance Record</u>
<u>Public defense/viva-voce/Seminar</u>
For M.Sc.

S.No.	Name and Registration No. :	Centre:	Project	Name of the Supervisor
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Sr. No.	Name and Designation	Centre	Signature
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Doctor of Philosophy (Ph.D.) Programme Rules (Applicable w.e.f. Academic Session 2017-18)

Central University of Punjab, Bathinda (Established under the Central Universities Act, 2009)

NAAC ACCREDITED 'A' GRADE UNIVERSITY

Doctor of Philosophy (Ph.D.) Programme Rules (Applicable w.e.f. Academic Session 2017-18)

{Sub - Section (1) (b) of Section 28 of the Central Universities Act, 2009}

1. TITLE AND COMMENCEMENT

- 1.1 These rules shall be called the Rules of Ph.D. Programme hereinafter referred as the Programme, and shall be applicable to all the Ph.D. Programmes unless otherwise stated. These rules shall come into force with immediate effect.
- 1.2 The Degree of Doctor of Philosophy (Ph.D.) may be granted in any faculty of the University subject to general guidance of the Academic Council and general control of the School Board concerned.

2. DURATION

- 2.1. The minimum duration for completion of each Doctoral Programme shall be 06 semesters (3.0 academic years) and the maximum duration shall be 10 semesters (5 academic years).
- 2.2 Normally, the student is expected to complete his/her programme within the minimum period as laid down under the relevant rule 2.1 of the University. In exceptional circumstance a further extension of one more year may be granted. The exceptional circumstances shall be:
 - (i) More than 6 month hospitalization,
 - (ii) Death of a supporting guardian,
 - (iii) Disturbed conditions as declared by the Government.
 - (iv) Any other valid reason with the approval of the Hon'ble Vice-Chancellor (Under conditions as stipulated fine etc.)
- 2.3 The name of a scholar shall be removed/struck off from the rolls of the University if the student fails to submit thesis within five years of the date of registration.
- 2.4 The name of a scholar shall be removed/struck off from the rolls of the University if he/she remain absent from the University for a period of one month without permission. He/she needs to take re-admission in the programme after completing the necessary formalities (i.e. payment of fee, recommendation of COC and Supervisor) within one month from the issuance of name struck off order. After that, no claim for the readmission will be entertain.
- 2.5 No candidate admitted to this Programme shall undertake any employment or join any other course of study before completing the minimum residency period of 3.0 years.
- 2.6 In case of a foreign student who is compelled to leave the programme in between for getting the student visa extended, such period shall not be counted for the purpose of calculation of duration of the programme.
- 2.7 A semester/year may be declared a zero semester/year in case of a student could not continue with the programme during that period due to illness, hospitalization, accepting a foreign scholarship/fellowship and joining a government job subject to the fulfilment of requirements as laid down by the relevant rules. However, the student has to

pass/complete Ph.D. Programe with in the maximum Period as laid down by the UGC letter No. D.O. No. F.12-1/2015 (CPP-II) dated 15th October, 2015.

3. NUMBER OF SEATS

- 3.1 The number of seats in each Ph.D. programme shall be as approved by the statutory bodies of the university and will be notified on the university website and in the admission Prospectus issued at the time of admission, which according to the UGC regulations issued from time to time.
- 3.2 The policy of the Government of India and the guidelines of the UGC, regarding reservation of seats for candidates belonging to Scheduled Castes, Scheduled Tribes, OBCs (Non Creamy Layer) and for differently abled candidates shall be implemented.

4. ADMISSION CRITERIA

- 4.1.Admission of a candidate to the programme would be made only in its first semester. The candidate shall be promoted to subsequent semesters of the programme after completing necessary formalities.
- 4.2. In exceptional cases lateral entry of a candidate shall be considered for admission to a later semester of the programme on the recommendations of the concerned School Board and approval of Academic Council/Executive Council.
- 4.3. Foreign nationals residing in India or abroad or Indian nationals residing abroad may be admitted to this programme according to the policy guidelines laid down by the International Students Admission Committee and Government of India/Statutory Bodies of the University from time to time.
- 4.4. Candidate eligible for admission to the Programme shall not be admitted if already registered for a full time Programme of this university or any other university/institute.
- 4.5. Candidates admitted to the Programme shall be permitted to pursue part-time evening certificate/diploma programmes of professional nature in the university or other institutions.

5. ELIGIBILITY FOR ADMISSION

- 5.1. The applicant should have a Master's degree in the relevant subject with minimum of 60% marks (55% for SC/ST/OBC(NCL)/PWD).
- 5.2. Candidate must have some financial assistance such as NET-JRF, financial assistance from Govt. agencies {Like Rajiv Gandhi National Fellowship (RGNF), Maulana Azad National Fellowship (MANF) etc.} and working in CUPB projects with fellowships. Only NET-JRF will be exempted from test, however they have to appear in the interview.
- 5.3. Those without any financial assistance may appear in the test. If they qualify, they can be admitted before issue of next advertisement /admission process if successful in getting some financial assistance.
- 5.4. CUT-OFF MARKS: The cut-off marks to qualify the entrance test will be 50% {45% for SC/ST/OBC(NCL)/PWD}. Candidates scoring less than 50% {45% for SC/ST/OBC(NCL)/PWD} marks will not be considered.
- 5.5. EVALUATION OF PERFORMANCE: The performance of a candidate will be evaluated as under:

- Entrance test- 75 marks
- II. Interview 25 marks
- 5.6. No one shall be considered for admission unless he/she has appeared in the entrance examination, however NET-JRF are exempted.
- 5.7. The University will not grant any fellowship in any Centre.
- 5.8. The valid NET-JRF qualified candidate will be exempted from test and they will be given the weightage of 75 marks of written test, however they have to apply in the entrance examination and appear in interview.
- 5.9. For admission to Ph.D. Programme, the candidates working in CUPB Research Projects and those holding Financial Assistance from Govt. of India/RGNF/MANF etc. are required to pass in the written entrance test as well as Interview for Ph.D.
- 5.10. The candidates who have fellowships from external sources will be first preferred in case they qualify the test/interview and are eligible.
- 5.11. The candidates having any financial assistance such as RGNF, MANF, etc., will be given priority over those without any financial assistance, subject to qualifying entrance test.
- 5.12. Those without any financial assistance will be kept in a panel against the vacant seats, if any, after those above are admitted. The panel shall be valid upto next advertisement/admission process.
- 5.13. The candidates in the panel will be provisionally enrolled for Ph.D. and will be eligible for getting their applications forwarded for outside agencies such as RGNF, MANF, etc. any other, however, they shall not be allowed to begin Course Work till they submit proof of financial assistance.
- 5.14. If awarded a fellowship or selected in a project of Central University of Punjab, such candidates shall be registered for Ph.D. and allowed to begin Course Work.
- 5.15. The Interview will be conducted at the level of Centre by the Coordinator of Centre along with 02 Senior Faculty members. The Centre shall check the eligibility for admicsion to Ph.D. Couroc. The Dean/Associate Dean of the School will be Chairman/Coordinator for Ph.D. Admission.
- 5.16. Interview Committee of the Centre will also verify all the original documents of the candidates and shall be responsible for compliance of rules prescribed.
- 5.17. In case of candidate who are in a panel and wants to apply for the Financial Assistance from Govt. Agencies like RGNF/MANF etc. will have to submit an affidavit that, In case, he/she does not get fellowship within valid period of panel, he/she will not have any claim on the admission to Ph.D. course.
- 5.18. A person whose M.Phil. Dissertation has been evaluated and the viva voce is pending may be admitted to the Ph.D. programme of the same Institution.
- 5.19. The women candidates and Persons with Disability (more than 40% disability) may be allowed a relaxation of two years for Ph.D. in the maximum duration. In addition, the women candidates may be provided Maternity Leave/Child Care Leave once in the entire duration of Ph.D. for up to 240 days.

6. PROCEDURE FOR ADMISSION

6.1 The University shall invite applications from eligible candidates for admission to the programme in each academic session, giving details of the academic calendar, number of seats available, eligibility criteria, prescribed fees, etc.

- 6.2 Admission to the various programmes of studies shall be made on All-India basis and on the basis of merit, either through Common Entrance Test conducted individually by the University or in combination with other universities, or on the basis of marks obtained in the qualifying examination in such courses where the intake of students is small.
- 6.3 The admission schedule to the programme shall be advertised in leading newspapers at the national level and also on the university website. The entrance test shall be conducted at national level at the designated centers to be decided by the university depending upon the number of students opting for a centre.
- 6.4 The selected candidates shall submit the prescribed fee and other relevant documents to the university within the stipulated time.

7. ALLOCATION OF RESEARCH SUPERVISOR:

Eligibility criteria to be a Research Supervisor, Co- Supervisor, Number of Ph.D. scholars permissible per Supervisor, etc.

- 7.1 Any regular Professor of the University with at least five research publications in refereed journals and any regular Associate/Assistant Professor of the university with a Ph.D. degree and at least two research publications in refereed journals may be recognized as Research Supervisor.
 - Provided that in areas/disciplines where there is no or only a limited number of refereed journals, the Institution may relax the above condition for recognition of a person as Research Supervisor with reasons recorded in writing.
- 7.2 Only a full time regular teacher of the University can act as a supervisor. The external supervisors are not allowed. However, Co-Supervisor can be allowed in inter-disciplinary areas from other departments/centres of the same institute or from other related institutions where University signed MOU or with the approval of the Competent Authority recommended through Research Advisory Committee.
- 7.3 The allocation of Research Supervisor for a selected research scholar shall be decided by the Centre concerned depending on the number of scholars per Research Supervisor, the available specialization among the Supervisors and research interests of the scholars as indicated by them at the time of interview/viva voce.
- 7.4 In case of topics which are of inter-disciplinary nature where the Centre concerned feels that the expertise in the Centre has to be supplemented from outside, the Centre may appoint a Research Supervisor from the Centre itself, who shall be known as the Research Supervisor, and a Co-Supervisor from outside the Centre on such terms and conditions as may be specified and agreed upon by the consenting Institutions/University/Colleges.
- 7.5A Research Supervisor/Co-supervisor who is a Professor, at any given point of time, cannot guide more than Eight (8) Ph.D. scholars. An Associate Professor as Research Supervisor can guide up to a maximum of six (6) Ph.D. scholars and an Assistant Professor as Research Supervisor can guide up to a maximum of four (4) Ph.D. scholars.
- 7.6 In case of relocation of an Ph.D. woman scholar due to marriage or otherwise, the research data shall be allowed to be transferred to the University to which the scholar intends to relocate provided all the other conditions in these regulations are followed in letter and spirit and the research work does not pertain to the project secured by the parent institution/supervisor from any funding agency. The scholar will however give due credit to the parent guide and the institution for the part of research already done.

- 7.7 Once the supervisor and centre was allotted to the Ph.D. Scholar, it's shall not be changed during the Ph.D. duration except the exceptional circumstance (i.e.
 - In case Guide/Supervisor of a student leaves (resign/proceeding on long leave) the University and before leaving is not in a position to suggest a new Guide/Supervisor, Chairman of the Research Advisory Committee and Dean-Academic Affairs may interact with the student and appoint a new Supervisor/Guide or Administrative Guide/Supervisor (in case no faculty/teacher is available within the Centre, then administrative Guide/Supervisor can be appointed till new regular teacher/Faculty shall join the University). Change of guide requires approval of the Competent Authority.
 - II. If a teacher with in the Centre agrees to be the guide/supervisor of the Ph.D. scholar, if the present supervisor of the Ph.D. Scholar leaves the University, then teacher/faculty who agree to be the Supervisor of him/her needs to give an undertaking regarding the suitability of the research proposal keeping in view the availability of infrastructure to carry out the proposed research work and viability of proposal. After that the case shall be put-up to the Research Advisory Committee through the Supervisor and Centre for the approval.
- 7.8 The Centre of the Ph.D. Scholar can be changed for valid reasons with the approval of the Competent Authority.
- 7.9 No scholar shall be allotted to a teacher for supervision if he/she has less than three years to superannuate from the University service. He can however be a joint supervisor'/Co-supervisor.
- 7.10 If there is any need for modification of the title of research work, the candidate shall submit an application to the Chairman RAC which will forward it, with its recommendations to, the Administrative and Academic Committee (AAC) through COC of the Centre at least 6 months before the date of submission of the thesis. A minor change that does not alter the meaning of the title, if suggested during the pre-submission seminar, shall be permitted.

8. COURSE WORK:

Credit Requirements, number, duration, syllabus, minimum standards for completion, etc.

- 8.1 The credit assigned to the Ph.D. course work shall be a minimum of 08 credits and a maximum of 16 credits.
- 8.2 The course work shall be treated as prerequisite for Ph.D. preparation. A minimum of four credits shall be assigned to one or more courses on Research Methodology which could cover areas such as quantitative methods, computer applications, research ethics and review of published research in the relevant field, training, field work, etc. Other courses shall be advanced level courses preparing the students for Ph.D. degree.
- 8.3 All courses prescribed for Ph.D. course work shall be in conformity with the credit hour instructional requirement and shall specify content, instructional and assessment methods. They shall be duly approved by the authorized academic bodies.
- 8.4 The Department/Centre where the scholar pursues his/her research shall prescribe the course(s) to him/her based on the recommendations of the Research Advisory Committee.
- 8.5 All candidates admitted to the Ph.D. programmes shall be required to complete the course work prescribed by the Department/Centre during the initial one or two semesters.
- 8.6 Candidates already holding M. Phil. degree and admitted to the Ph.D. programme, or those who have already completed the course work in M.Phil. and have been permitted to proceed

to the Ph.D., may be exempted by the Centre from the Ph.D. course work through Equivalence Committee of the University. For the exemption of the Course work in Ph.D. the application must come to Equivalence Committee through the Centre Administrative and Academic Committee (AAC). All other candidates admitted to the Ph.D. programme shall be required to complete the Ph.D. course work prescribed by the Centre.

- 8.7 A Ph.D. scholar has to obtain a minimum of 60 % of marks or its equivalent CGPA in the UGC 10-point scale in the course work in order to be eligible to continue in the programme and submit the thesis.
- 8.8 After successful completion of course work the candidate shall be recommended for final registration in Ph.D. programme.

9. INDISCIPLINE AND UNFAIR MEANS IN EXAMINATION:

- 9.1 There shall be zero-tolerance against use of unfair means and unfair practices in connection with examination and each examinee shall be required to strictly adhere to the instructions for taking examination. Non adherence to such instructions shall attract disciplinary action. For End-Term Examination (For Ph.D. Course Work), a flying squad will be constituted by the Dean Academic Affairs on the recommendation of the COE consisting of appropriate women members to ensure fairness and discipline in the examination. In case of any case(s) of unfair means, indiscipline and disturbance during the examination, the flying squad will submit its report with full details of the evidence in support thereof and the statement of the candidate to the Controller of Examinations.
- 9.2 Use of unfair means is strictly prohibited and shall invite serious disciplinary action for anyone found using unfair means during any examination. Unfair practices and unfair means relating to examination shall mean and include:
 - Exerting pressure, coercion and undue influence for postponement and change of dates and timings of examination.
 - (ii) Threatening the invigilator or any other behaviour amounting to insubordination as reported by the Invigilator.
 - (iii) Seeking favours from and/or threatening the examiners, paper setters, evaluators, invigilators, co-examinees or any other officer or staff of the university.
 - (iv) Resorting to such practices and engaging into activities that are specifically prohibited during the course of examination.
 - (v) Keeping in possession of materials of any kind related to the subject of the examination concerned including mobile / cell phones / electronic aids, unless otherwise permitted as a component of examination and/or copying or attempting to copy from the materials in possession or from other persons within or outside the examination hall,
 - (vi) Exchanging notes, inter-changing answer scripts, helping other examinees, seeking help from and/or consulting other examinees or any other person inside or outside the examination hall.
 - (vii)Attempts of impersonation including writing some other candidate's registration number / roll number in the answer paper and/or Exchanging or attempting to exchange answer sheets or other materials during the course of examination.

- (viii) Sitting or occupying seats other than the one allotted to the candid ate or changing the seat during the course of examination without the permission of the invigilator.
- (ix) Boycott / walkout of the examination and or causing disturbances of any kind during the conduct of examination.
- (x) Any other act of omission or commission as may be declared by the Executive Council as unfair means in respect of any or all the examinations.
- 9.3 Detection of unfair means, indiscipline and disturbances during the examination shall be brought to the notice of the Centre Coordinator/OIC by the invigilator concerned in writing. The COC/OIC shall report to the Controller of Examinations without delay, each case of alleged use of unfair means in the examination with full details of the evidence in support thereof and the statement of the candidate concerned, if any. In case a candidate found using unfair means in examination refuses to make and sign the said statement, the in cident shall be recorded by the Invigilator and countersigned by the COC/OIC. The answer book of the candidate found using unfair means in the examination shall be seized and the candidate may be permitted to write his/her examination on a separate answer-book to be issued to him/her. The COC/OIC shall send both the answer-books to the Controller of Examinations along with his/her report.
- 9.4 All individual cases of reported use of unfair means in examination shall be referred to the Examination Discipline Committee constituted by the Competent Authority. Provided that in case of use of unfair means on a mass scale at an examination centre, the Vice-Charcellor shall have powers to cancel the examination of all the candidates appearing from the centre concerned and order re-examination an initiate further disciplinary action against all concerned.
- 9.5 The Examination Discipline Committee shall decide the extent, and magnitude of punishment to those found guilty of using Unfair Means in examination with due regard to the nature and extent of offence committed by a candidate in use of Unfair means and shall ensure that the punishment is commensurate to the offence committed and in accordance with the principle of natural justice.
- 9.6 All decisions taken by the Committee will be placed before the Vice-Chancellor for approval.
- 9.7 A candidate found guilty of using Unfair Means in examination by the Examination Discipline Committee, may appeal to the Vice-Chancellor, in writing, within one month of the receipt of the decision of the University; and if the Vice-Chancellor is satisfied that the representation merits consideration, he/she may refer the case back to the Examination Discipline Committee for reconsideration.

10. RESEARCH ADVISORY COMMITTEE:

- 10.1 There shall be a Research Advisory Committee or an equivalent body for similar purpose for each Ph.D. scholar. The Research Advisory Committee or an equivalent committee shall consist of the following members:
 - i. Vice-Chancellor's nominee
 - Dean/Associate Dean of the School
 - iii. COC/OIC of the Centre

- iv. Supervisor- Convener
- 10.2 Not later than six months after the provisional registration in Ph.D. programme, the candidate shall deliver an open house seminar on the thesis research proposal (symopsis seminar) to be undertaken by him/her during Ph.D. before the Research Advisory Committee (RAC). The Research Supervisor of the scholar shall be the Convener of this Committee. This Committee shall have the following responsibilities:
 - (i) To review the research proposal and finalize/approve the topic of research.
 - (ii) To guide the research scholar to develop the study design and methodology of research and identify the course(s) that he/she may have to do.
 - (iii) To periodically review and assist in the progress of the research work of the research scholar.
- 10.3 In case a candidate wishes to change the topic of research, he/she may be permitted to do so within one year from the date of his/her registration. The modified research proposal shall be submitted to the Research Advisory Committee (RAC) through the concerned Centre and Academic and Administrative Committee (AAC) for its consideration and approval.
- 10.4 A research scholar shall appear before the Research Advisory Committee once in six months to make a presentation of the progress of his/her work for evaluation and further guidance. The six monthly progress reports shall be submitted by the Research Advisory Committee to the Centre/School with a copy to the research scholar.
- 10.5 In case the progress of the research scholar is unsatisfactory, the Research Advisory Committee shall record the reasons for the same and suggest corrective measures. If the research scholar fails to implement these corrective measures, the Research Advisory Committee may recommend to the Centre/School with specific reasons for cancellation of the registration of the research scholar.
- 11. EVALUATION AND ASSESSMENT METHODS, MINIMUM STANDARDS/CREDITS FOR AWARD OF THE DEGREE, ETC.:
 - 11.1 Upon satisfactory completion of course work, and obtaining the marks/grade prescribed in sub-clauses 8.7 above, as the case may be, the Ph.D. scholar shall be required to undertake research work and produce a draft synopsis within 04 semesters from the date of Registration (one year Course work + one year synopsis).
 - 11.2 The synopsis shall be put-up before the Research Advisory Committee (RAC) for Evaluation and approval.
 - 11.3 Prior to the submission of the thesis, the scholar shall make a presentation in the Centre/School before the Research Advisory Committee of the University which shall also be open to all faculty members and other research scholars. The feedback and comments obtained from them may be suitably incorporated into the draft thesis in consultation with the Research Advisory Committee.
 - 11.4 Ph.D. scholars must publish at least one (1) research paper in refereed journal and make two paper presentations in conferences/seminars before the submission of the thesis for adjudication, and produce evidence for the same in the form of presentation certificates and/or reprints.
 - 11.5 While submitting for evaluation, the thesis shall have an undertaking from the research scholar vouching that there is no plagiarism and that the work has not been submitted for the award of any other degree/diploma of the same Institution where the work was carried out, or to any other Institution. A certificate is to be submitted from the Research Supervisor attesting to the originality of the work to the best of his/her knowledge.

- 11.6 The Ph.D. thesis submitted by a research scholar shall be evaluated by his/her Research Supervisor and at least two external examiners, who are not in employment of the University, of whom one examiner may be from outside the country. The viva-voce examination, based among other things, on the critiques given in the evaluation report, shall be conducted by the Research Supervisor and at least one of the two external examiners, and shall be open to be attended by Members of the Research Advisory Committee, all faculty members of the Department/Centre, other research scholars and other interested experts/researchers.
- 11.7 The Research Scholar will certify, after verification using an appropriate software, that the contents of the thesis are free of plagiarism and copyright regulations.
- 11.8 The thesis shall include a certificate from the Supervisor to the effect, inter alia, that the recommendations made by the evaluation committee have suitably been incorporated and a declaration that the thesis incorporates the student's bonafide research and that the findings have not been submitted for award of any degree / diploma in this or any other University or Institute of learning.
- 11.9 The public *viva-voce* of the research scholar to defend the thesis shall be conducted only if the evaluation report(s) of the external examiner(s) on the thesis is/are satisfactory and include a specific recommendation for conducting the *viva-voce* examination. If one of the evaluation reports of the external examiner in case of Ph.D. thesis, is unsatisfactory and does not recommend *viva-voce*, the Institution shall send the thesis to another external examiner out of the approved panel of examiners and the *viva-voce* examination shall be held only if the report of the latest examiner is satisfactory. If the report of the latest examiner is also unsatisfactory, the thesis shall be rejected and the research scholar shall be declared ineligible for the award of the degree.
- 11.10 The entire process of evaluation of Ph.D. thesis shall be complete within a period of six months from the date of submission of the thesis.

12. RE-SUBMISSION OF THESIS

- A candidate whose thesis has been referred back for revision shall re-submit it for the award of the Ph.D. Degree within one year of the intimation of the decision of the University.
- b) A thesis which has been re-submitted shall be examined by the same external examiner(s). In case any examiner(s) is (are) unwilling to act as such, another examiner(s) may be appointed by the Vice -Chancellor from the approved panel of examiners.
- c) During the period of resubmission, hostel facility can be provided if available. Otherwise the candidate shall have to arrange her/his accommodation.

13. MEDIUM OF INSTRUCTION AND EXAMINATION

English shall be the medium of instruction, study, examination and research of the University, except in languages, or else as may be decided by the Academic Council.

14. FEES

Fees to be paid by the student during the Ph.D. programme will be laid down from time to time by the university.

15. DEPOSITORY WITH INFLIBNET:

On successful completion of the evaluation process and before the announcement of the award of the Ph.D. degree(s), the University shall submit an electronic copy of the Ph.D. thesis to the INFLIBNET, for hosting the same so as to make it accessible to all Institutions/Colleges.

16. COPYRIGHTS

- Central University of Punjab reserves the copyright for the thesis for which the university has awarded the Ph.D. degree.
- ii. In case of any ambiguity/non-availability of rules in these Rules, the decision of the Vice chancellor shall be final. Notwithstanding anything contained in these rules and regulations, the Vice Chancellor may take such measures as may be necessary for removal of doubts/difficulties and to resolve any other extraordinary issues.

17. AWARD OF DEGREE

- i. The successful candidates shall be admitted to and conferred the Degree of Doctor of Philosophy in the respective discipline, as the case may be, provided he/she has:
- ii. No pending dues to the university, hostel or library outstanding
- iii. No disciplinary action pending against him/her
- iv. Fulfilled such other conditions and requirements as prescribed under rules
- v. For those candidates who have qualified for the degree in disciplines which are interdisciplinary in nature, the university may issue the degree in the respective discipline in which they have registered and have completed their programme.
- vi. The university shall issue degree in accordance with the provisions of UGC (MINIMUM STANDARDS AND PROCEDURE FOR AWARD OF M.Phil./Ph.D. DEGREE), REGULATIONS, 2016.
- vii. The Academic Council, on the recommendation of the Vice Chancellor shall have the right to withdraw the degree if plagiarism or any other form of malpractice is detected at any stage, and to initiate such further action as it deems fit. Provided that the Vice Chancellor shall get the complaint in the matter investigated confidentially and shall give the accused an opportunity to explain before he makes his recommendation on the matter to the Academic Council.

18. POWER TO REMOVE ANY DIFFICULTY

Notwithstanding what is contained in the Regulations; the Chairperson, Academic Council may in exceptional circumstances and on the recommendations of the School Board concerned or an appropriate Committee on the merits of each individual case consider, and for reasons to be recorded, allow relaxation of any of the provisions except those prescribing CGPA requirements and clause 17 (vi).

19. HOSTEL

Facility of hostel could be offered only if vacant rooms / seats are available. In case it is availed of, the HRA applicable with the fellowship will not be paid. Only the hostel rent will be reimbursed.

- 1. Frof. R. K. Kohli, Vice Chancellor, Chairperson
 - 2. Prof. P. Ramarao, Dean Academic Affairs, Director
 - 3. Prof. R. G. Saini, Invited Professor
 - 4. Prof. R. C. Sharma, Registrar and Professor-In-Charge (Examinations)
 - 5. Prof. A. K. Jain, Dean, School of Engineering and Technology
 - 6. Professor A. K. Dhawan , Coordinator IQAC
 - Dr. J. S. Hundal, Director, Giani Zai Singh Technical University, Bathinda
- 8. Dr. Anjana Munshi, Associate Professor, Centre for Human Genetics
- 9. Dr. Deepak Chauhan, Assistant Professor, Centre for Environmental Law
- 10. Dr. Sunil Mittal, Assistant Professor, Centre for Environmental Sciences & Technology
- 11. Ms. Shweta Arora, Deputy Registrar
- 12. Mr. Sweet Singh, Campus Manager
- Mr. Gajendra Singh Vishwakarma, Regn. No.-CUP/MPh-PhD/SEES/EVS/ 2009-10/12

Item No. EC:15:15.19 To consider the Policy for Admission of International Students

(A) INTERNATIONAL STUDENTS

International Students will include the following:

- Foreign Nationals: Candidates holding citizenship of any foreign country.
- Persons of Indian Origin (PIO): A person who or whose any
 of ancestors was an Indian national and who is presently
 holding another country's citizenship/ nationality i.e. he /she
 is holding foreign passport.
- Non Resident Indians (NRI): An Indian citizen who is residing outside India and holds an Indian Passport.

Only those Non-Resident Indian students who have studied and passed the qualifying examinations from schools or colleges in foreign countries will be included as international students. Dependants of NRIs studying in India will not be considered as international students.

International students will be admitted directly against the supernumerary seats, without appearing in the Entrance Test.

These students shall be admitted to various Degree Programme's under the following categories:

Direct Applicants (Full Time Programme): International students, who wish to join under Self-financed category, are required to submit their application to Admissions Office CUPB. The institute's decision after scrutinizing the applications will be communicated to the respective student. Authorized copies will be marked to the Embassy/ Visa Offices as required by the student.

However, in case of students from restricted countries i.e. Pakistan, Afghanistan, China, Bangladesh & Sri Lanka, the application MUST be forwarded through their respective Embassy.

- ICCR Cultural Exchange Fellowship Programmes (Govt. of India): Candidates desirous of admission under this Fellowship Programme are required to apply through the Indian High Commission/Embassy as the case may be, in their respective countries. Application to ICCR should be forwarded to CUPB for consideration. In case the applicant is found suitable, admission offer letter will be sent to him/her through Indian Council for Cultural Relations (ICCR), New Delhi. Candidates are not eligible for getting any financial assistance from CUPB.
- Embassy sponsored candidates: Candidates sponsored by the High Commissions/ Embassies of Foreign countries.

International students seeking admission to CUPB in any one of the aforesaid categories will have to satisfy the minimum eligibility criteria for admission to the programmes as prescribed by the University.



OTHER REQUIREMENTS FOR ADMISSION OF INTERNATIONAL STUDENTS

- a) All international students will require a 'Student VISA' en dorsed to this institution for joining CUPB courses. No other endorsement is acceptable. The visa should be valid for the prescribed duration of the course.
- b) Any statutory clearances from MHRD, Govt. of India, if re quired, shall be applicable.

EQUIVALENCE OF FOREIGN DEGREES FOR ELIGIBILITY QUALIFICATIONS
IN CUPB

The qualifications required for admission to different Courses in CUPB will be included in admission brochure. Only those Students who have qualified from foreign universities recognized as equivalent by the 'Association of Indian Universities' (AIU) are eligible for admission. When required, a reference will be made to AIU to check the equivalence. Degrees obtained from Universities approved by the Department of Education/ other statutory bodies of concerned country will also be acceptable. If necessary, the Board of Studies of the concerned department in CUPB may be asked to determine Equivalence of Foreign degrees.

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um oed a) For Masters Programmes

A Bachelor's Degree in relevant discipline. Subject requirements for admission to a programme will be the same as for Indian nationals seeking admission to CUPB in that programme.

b) For Ph.D. Programmes

Master's degree in relevant discipline with proven academic/research aptitude. Detailed programme wise requirements are same as Indian nationals.

Requirements common for both Maters and Ph.D. programme:

 Being a national level university, the medium of instruction at CUPB is English. Applicants, who have obtained a valid IELTS or TOEFL score, will get preference.

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- Those without a valid IELTS or TOEFL score, shall have to pass
 CUPB English Proficiency Test (CEPT) after jacobining the
 University. A student deficient in English will be asked to
 study language courses.
- A valid GRE/GMAT (for candidate applying to Fo d Business
 Management and Entrepreneurship Development
 department) score is not mandatory for admissiom. However,
 students with a valid GRE/GMAT score/grac e will get
 preference.
- Applicants have to submit a brief essay of 300 words (approximately) stating the reason/s why sh e/he seeks admission to CUPB and the purpose of study.

FEES

International students will pay fees as applicable and announced in the admission brochure. For the current year fees for international students shall be as below:

Masters programmes in Humanities: US\$ 1000 per annum Masters programmes in Sciences: US\$ 1200 per annum US\$ 1400 per annum

- Hostel accommodation furnished with basic facilities is included in the above fee.
- However, International students may seek additional facilities on payment basis.
- There will be 10% cumulative increase in tee every year.
- Students from SAARC countries will be charged fees same as for Indian students.

STEPWISE PROCEDURE FOR ADMISSION OF INTERNATIONAL STUDENTS

The procedure for admission to a programme at CUP will be as given below. Students may submit their curriculum vitae directly to the university or through ICCR or through the embassy as the case may be.

Step 1:

- Interested International students must read the admission brochure carefully to check the eligibility
- International students should submit their curriculum vitae
 (as per attached format at Annexure-IX) clearly indicating their academic achievements along with self-signed copies of

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ing of the documents to the Admissions office, CUPB by p Ost or by email.

- A brief essay of 300 words (approximately) starting the reason/s why she/he seeks admission to CUPB and the purpose of study should form a part of CV.
- Photocopies of the following documents are required along with the application on a prescribed format:
 - -Proof of date of birth.
 - -Certificate and Mark-sheet of qualifying examination. (Mark-Sheet/Degrees in a language other than English should be got translated into English)
 - -Copy of passport for foreign citizens or Dual citizenship card for PIO or NRI status certificate
 - -Softcopies of passport size photograph. (JPG format)
 - -Two letters of Recommendation to be enclosed in sealed covers.
- Application Timelines: Applications of foreign students for the academic year beginning July/August will be accepted beginning January 1 of the year. Applications will be reviewed as received and hence should be made well in time, so that the student is able to obtain the VISA and NOC before the start of the academic session.

Step 2:

The Admission Cell after checking the eligibility criteria and other relevant information will inform the applicant by email, it found eligible. Now, the applicant will make payment of non-refundable advance amount equivalent to US\$ 100. The application will then be reviewed and if found suitable a 'Provisional Admission Offer Letter' will be issued to enable the student to obtain the VISA.

Step 3:

Submit the 'Provisional Admission Offer Letter' to the Indian Embassy of the respective country for obtaining the 'VISA'.

Step 4:

Report at CUPB on the notified date for orientation. Bring all above mentioned documents in original and get them verified by the Admission Cell. The original certificates will be returned to the students immediately after making an endorsement to this effect.

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Students are required to undergo the medical fitness examination (at Step 5: CUPB) and get the medical fitness certificate. Government of Ind in rules for international students entering India on 'Student VISA' for testing for HIV shall apply. They are also required to produce HIV test report to the Doctor. All international students will be required to obtain medical insurance.

Admission of International/PIO/NRI students will be confirm ed after verification of original certificates, medical fitness test and payment of required fees. Even after the admission, at any stage if it is noted that the qualifying Degree/Certificate is not recognized by AIU, the admission of the candidate will be cancelled. Withdrawal of admissions/ refund of fees cases will be dealt as per the guidelines of CUPB.

Within a week of arrival in India, students are required to register their names with the police in the 'Foreigner Regional Registration Office (FRRO) and submit a proof of such registration to the Admissi on Cell.

The International Students will abide by all the rules of the University and code of conduct as applicable to Indian students undergoing the same course. Anti-social and anti- national activities, misbehaviour, violence and unethical activities involving international students will be dealt in accordance with state and central laws that are in force, CUPB will not take any responsibility for any criminal or non-criminal acts committed inside or outside the campus by the international students.

Foreign Students admitted under direct applicant category (refer description at Admission Procedure under this section) are eligible to get 'merit' scholarship/'earn-while-learn' assistantship as per the prevailing norms.

ADVISORY COMMITTEE FOR INTERNATIONAL ADMISSION

The following will form advisory committee for international admissions

- Dean Academic Affairs
- Registrar
- Dean Students Welfare
- Dean of International Education Division

Item No. EC:15:15.38 To consider the Guidelines to Check Plagiarism

These guidelines are developed for faculty, students, re searchers and a others associated with generation of Intellectual pro perty at Centra University of Punjab, Bathinda (CUPB), and aim at promoting originalit and checking plagiarism.

- All cases of plagiarism at CUPB, no matter how minor, will b viewed seriously.
- For definition of plagiarism and related issues, the documen circulated by turnitin.com (Annexure-XI) will be followed in CUPB.
- The students and faculty will be made aware of the information on Plagiarism as contained in this document.

Other guidelines related to plagiarism policy are as below:-

- Plagiarism reports must be generated by available software a the time of submission of Ph.D. thesis/ research reports/ credi assignments and other documents claimed as original.
- 2. The exclusion at the time of performing the check should be limited to the following:
 - a) Quotes
 - b) Bibliography/References/Citations
 - c) Phrases
 - d) Small matches upto 10 words
 - e) Format
 - t) Ideas/works or language of the lab/tearn/group or the supervisor(s)
 - g): Small similarity less than 1%
 - h) Mathematical Formula
 - i) Name of Institutions, Departments etc.
- 3. In case of self-plagiarism or cases where published work of a researcher from the lab/group etc. is shown by Plagiarism check, a certificate (Plagiarism Self Exclusion Certificate, Annexure-XIII) has to be issued by the Supervisor specifying and attaching the articles that have been published by the student from thesis work. Only these articles should be excluded from the check. No other article of the Supervisor or the student should be excluded from the check. This will be for reference of the library which will perform the final check.
- The final Plagiarism check from the library is essential so that the
 correct report is submitted at the time of submission of thesi
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5. For Ph.D. thesis, the University library will issue the final certificate of Plagiarism Check called the Plagiarism Verificætion Certificate (Annexure-XIII), certifying and authenticating the check performed by the student/Department. This certificatæ has to be submitted to the Exam Branch at the time of submission of thesis along with certificate from the students, signe d by Supervisor (Annexure -XIV)

Guidelines for action when Plagiarism is reported

When a case of plagiarism is reported the following procedure will a pply:

- The Vice Chancellor of CUPB will form a committee of experts, from within or outside the university, who will establish whether there is a plagiarism or not, if it is then there, what is the level. This committee will submit its report to the competent authority for a final decision in this regard.
- The committee will use the best possible software provided by UGC, INFLIBNET or National Knowledge Commission or specified or made available by the university for detecting the plagia rism.
- The onus of plagiarism shall rest with the student in case ○f PhD thesis and on the first author in case of a research paper.
- Depending on the severity of crime a student may be awarded any of the following punishments:
 - Fine or warning or both.
 - 2. Rustication for a limited period or permanent removal from CUPB.
 - 3. Withdrawal of degree awarded on plagiarized work.
- Depending on the severity of crime a supervisor/ teacher may be awarded any of the following punishments:
 - Warning or stoppage of increments or both.
 - 2. Removal from CUPB.
 - 3. Any other punishment as decided by the committee

The quantum of punishment will be decided by the Vice-Chancellor based on the recommendations of the committee and confirmed by the Executive Council based on the recommendations of the Academic Council.

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Annexure-≻1

What is Plagiarism?

Many people think of plagiarism as copying another's work, or borrowing someone else 's original ideas. But terms like "copying" and "borrowing" can disguise the seriousness of the offense:

According to the Merriam-Webster OnLine Dictionary, to "plagiarize" means

- 1) to steal and pass off (the ideas or words of another) as one's own
- 2) to use (another's production) without crediting the source
- 3) to commit literary theft

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4) to present as new and original an idea or product derived from an existing source.

In other words, plagiarism is an act of fraud. It involves both stealing someone else's work and lying about it afterward.

But can words and ideas really be stolen?

According to U.S. law, the answer is yes. In the United States and many other countries, the expression of original ideas is considered intellectual property, and is protected by copyright laws, just like original inventions. Almost all forms of expression fall under copyright protection as long as they are recorded in some media (such as a book or a computer file).

All of the following are considered plagiarism:

- · turning in someone else's work as your own
- copying words or ideas from someone else without giving credit
- failing to put a quotation in quotation marks
- · giving incorrect information about the source of a quotation
- · changing words but copying the sentence structure of a source without giving credit
- copying so many words or ideas from a source that it makes up the majority of your work, whether you give credit or not (see our section on "fair use" rules)

Attention! Changing the words of an original source is not sufficient to prevent plagiarism.

If you have retained the essential idea of an original source, and have not cited it, then no matter how drastically you may have altered its context or presentation, you have still plagiarized

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Most cases of plagiarism can be avoided, however, by citing so urces. Simply acknowledging that certain material has been borrowed, and providing your audience with the information necessary to find that source, is usually enough to prevent plagiarism.

Types of Plagiarism

Anyone who has written or graded a paper knows that plagiarism is not always a black-and-white issue. The boundary between plagiarism and research is often unclear. Learning to recognize the various forms of plagiarism, especially the more ambiguous ones, is an important step in the fight to prevent it.

I. SOURCES NOT CITED

- 1) "The Ghost Writer"

 The writer turns in another's work, word-for-word, as his or her own.
- "The Photocopy"
 The writer copies significant portions of text straight from a single source, without alteration.
- 3) "The Potluck Paper"
 The writer tries to disguise plagiarism by copying from several different sources, tweaking the sentences to make them fit together while retaining most of the original phrasing.
- Although the writer has retained the essential content of the source, he or she has altered the paper's appearance slightly by changing key words and phrases.
 - 5) "The Labor of Laziness"

 The writer takes the time to paraphrase most of the paper from other sources and make it all fit together, instead of spending the same effort on original work.
- 6) "The Self-Stealer"

 The writer "borrows" generously from his or her previous work, violating policies concerning the expectation of originality adopted by most academic institutions.

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11. SOURCES CITED (but still plagiarized!)

1) "The Forgotten Footnote"

The writer mentions an author's name for a source, but neglects to include specific information on the location of the material referenced. This often masks other forms of plagiarism by obscuring source locations.

"The Misinformer"

The writer provides inaccurate information regarding the sources, making it impossible to find them.

3) "The Too-Perfect Paraphrase"

The writer properly cites a source, but neglects to put in quotation marks text that has been copied word-for-word, or close to it. Although attributing the basic ideas to the source, the writer is falsely claiming original presentation and interpretation of the information.

4) "The Resourceful citer"

The writer properly cites all sources, paraphrasing and using quotations appropriately. The catch? The paper contains almost no original work! It is sometimes difficult to spot this form of plagiarism because it looks like any other well-researched document.

5) "The Perfect Crime"

Well, we all know it doesn't exist. In this case, the writer properly quotes and cites sources in some places; but goes on to paraphrase other a guments from those sources without citation. This way, the writer tries to pass off the paraphrased material as his or her own analysis of the cited material.

What is plagiarism?

Simply put, plagiarism is the use of another's original words or ideas as though they were your own. Any time you borrow from an original source and do not give proper credit, you have committed plagiarism and violated U.S. copyright laws. (See our What is Plagiarism? page for more detailed information on plagiarism.)

What are copyright laws?

Copyright laws exist to protect our intellectual property. They make it illegal to reproduce someone else's expression of ideas or information without permission. This can include music, images, written words, video, and a variety of other media.

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At one time, a work was only protected by copyright if it included a copyright trademark (the © symbol). According to laws established in 1989, however, works are now copyright protected with or without the inclusion of this symbol.

Anyone who reproduces copyrighted material improperly can be prosecuted in a court of law. It does not matter if the form or content of the original has been altered — as long as any material can be shown to be substantially similar to the original, it may be considered a violation of the Copyright Act.

For information on how long a copyright lasts, see the section below on the public domain.

Are all published works copyrighted?

Actually, no. The Copyright Act only protects works that express ori ginal ideas or information. For example, you could borrow liberally from the following without fear of plagiarism:

- · Compilations of readily available information, such as the phone book
- · Works published by the U.S. government
- Facts that are not the result of original research U.S. states, or that carrots contain Vitamin A)
- · Works in the public domain (provided you cite properly)

Can facts be copyrighted?

Yes, in some situations. Any "facts" that have been published as the result of individual research are considered the intellectual property of the author.

Do I have to cite sources for every fact I use?

No. You do not have to cite sources for facts that are not the result of unique individual research. Facts that are readily available from numerous sources and generally known to the public are considered "common knowledge," and are not protected by copyright laws." You can use these facts liberally in your paper without citing authors. If you are unsure whether or not a fact is common knowledge, you should probably cite your source just to be safe.

Does it matter how much was copied?

Not in determining whether or not plagiarism is a crime. If even the smallest part of a work is found to have been plagiarized, it is still considered a copyright violation, and its producer can be brought to trial. However, the amount that was copied probably will have a bearing on the severity of the sentence. A work that is almost entirely plagiarized will almost certainly incur greater penalties than a work that only includes a small amount of plagiarized material.

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But can't I use material if I cite the source?

You are allowed to borrow ideas or phrases from other sources provided you cite them properly and your usage is consistent with the guidelines set by fair use laws. As a rule, however, you should be careful about borrowing too liberally - if the case can be made that your work consists predominantly of someone else's words or ideas, you may still be susceptible to charges of plagiarism.

What are the punishments for plagiarism?

As with any wrongdoing, the degree of intent (see below) and the nature of the offense determine its status. When plagiarism takes place in an academic setting, it is most often handled by the individual instructors and the academic institution involved. If, however, the plagiarism involves money, prizes, or job placement, it constitutes a crime punishable in court.

Academic Punishments

Most colleges and universities have zero tolerance for plagiarists. In fact, academic standards of intellectual honesty are often more demanding than governmental copyright laws. If you have plagiarized a paper whose copyright has run out, for example, you are less likely to be treated with any more leniency than if you had plagiarized copyrighted material.

A plagiarized paper almost always results in failure for the assignment, frequently in failure for the course, and sometimes in expulsion.

Legal Punishments

Most cases of plagrarism are considered misdemeanors, punishable by fines of anywhere between \$100 and \$50,000 - and up to one year in jail.

Plagiarism can also be considered a felony under certain state and federal laws. For example, if a plagiarist copies and earns more than \$2,500 from copyrighted material, he or she may face up to \$250,000 in fines and up to ten years in jail.

Institutional Punishments

Most corporations and institutions will not tolerate any form of plagiarism. There have been a significant number of cases around the world where people have lost their jobs or been denied positions as a result of plagiarism.

Does intention matter?

Ignorance of the law is never an excuse. So even if you did not realize you were plagiarizing, you may still be found guilty. However, there are different punishments for willful infringement, or deliberate plagiarism, and innocent infringement, or accidental plagiarism. To distinguish between these, courts recognize what is called the good faith defense. If you

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can demonstrate, based on the amount you borrowed and the way you have incorporated it in your own work, that reasonably believed what you did was fair use, chances are that your sentence will be lessened substantially.

What is "fair use," anyway?

The United States government has established rough guidelines for determining the nature and amount of work that may be "borrowed" without explicit written consent. These are called "fair use" laws, because they try to establish whether certain uses of original material are reasonable. The laws themselves are vague and complicated. Below we have condensed them into some rubrics you can apply to help determine the fairness of any give n usage.

· The nature of your use.

If you have merely copied something, it is unlikely to be considered fair use. But if the material has been transformed in an original way through interpretation, analysis, etc., it is more likely to be considered "fair use."

· The amount you've used.

The more you've "borrowed," the less likely it is to be considered fair use. What percentage of your work is "borrowed" material? What percentage of the original did you use? The lower the better.

· The effect of your use on the original

If you are creating a work that competes with the original in its own market, and may do the original author economic harm, any substantial borrowing is unlikely to be considered fair use. The more the content of your work or its target audienced differs from that of the original, the better.

We recommend the following sites for more information on "Fair Use" and Copyright laws to http://www.umuc.edu/library/copy.html
http://www.sp.edu.sg/departments/asd/hk 1261.htm

What is the "public domain?"

Works that are no longer protected by copyright, or never have been, are considered "public domain." This means that you may freely borrow material from these works without fear of plagiarism, provided you make proper attributions.

How do I know if something is public domain or not?

The terms and conditions under which works enter the public domain are a bit complicated. In general, anything published more than 75 years ago is now in the public domain. Works published after 1978 are protected for the lifetime of the author plus 70 years. The laws Document provided by Turnitin com and Research Resources. Turnitin allows free distribution and non-plus use of this document in educational settings.

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although generally copyright protection extended 28 years after publication plus 47 more years if the copyright was renewed, totaling 75 years from the publication date. If you are uncertain about whether or not a work is in the public domain, it is probably best to contact a lawyer or act under the assumption that it is still protected by copyright laws.

What is Citation?

A "citation" is the way you tell your readers that certain material in your work came from another source. It also gives your readers the information necessary to find that source again, including:

- · information about the author
- · the title of the work
- · the name and location of the company that published your copy of the source
- · the date your copy was published
- · the page numbers of the material you are borrowing

Why should I cite sources?

Giving credit to the original author by citing sources is the only way to use other people's work without plagiarizing. But there are a number of other reasons to cite sources:

- Citations are extremely helpful to anyone who wants to find out more about your ideas and where they came from.
- Not all sources are good or right your own ideas may often be more accurate or interesting than those of your sources. Proper citation will keep you from taking the rap for someone else's bad ideas.
- · Citing sources shows the amount of research you've done.
- Citing sources strengthens your work by lending outside support to your ideas.

 The control of the strength of the st

Doesn't citing sources make my work seem less original?

Not at all. On the contrary, citing sources actually helps your reader distinguish your ideas from those of your sources. This will actually emphasize the originality of your own work.

When do I need to cite?

Whenever you borrow words or ideas, you need to acknowledge their source. The following situations almost always require citation:

- · Whenever you use quotes
- Whenever you paraphrase
- Whenever you use an idea that someone else has already expressed
- · Whenever you make specific reference to the work of another

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How do I cite sources?

This depends on what type of work you are writing, how you are using the borrowed material, and the expectations of your instructor.

First, you have to think about how you want to identify your sources. If your sources are very important to your ideas, you should mention the author and work in a sentence that introduces your citation. If, however, you are only citing the source to make a minor point, you may consider using parenthetical references, footnotes, or endnotes.

There are also different forms of citation for different disciplines. For example, when you cite sources in a psychology paper you would probably use a different form of citation than you might in a paper for an English class.

Finally, you should always consult your instructor to determine the forth of citation appropriate for your paper. You can save a lot of time and energy simply by asking "How should I cite my sources," or "What style of citation should I use?" before you begin writing.

In the following sections, we will take you step-by-step through some gene ral guidelines for citing sources.

Preventing Plagiarism - Student Resources

In a research paper, you have to come up with your own original ideas while at the same time making reference to work that's already been done by others. But how can you tell where their ideas end and your own begin? What's the proper way to integrate sources in your paper? If you change some of what an author said, do you still have to cite that person?

similar questions, or are concerned about preventing plagiarism, we recommend using the checklist below.

A. Consult with your instructor

Have questions about plagiarism? If you can't find the answers on our site, or are unsure about something, you should ask your instructor. He or she will most likely be very happy to answer your questions. You can also check out the guidelines for citing sources properly. If you follow them and the rest of the advice on this page, you should have no problems with plagiarism.

B. Plan your paper

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you need to plan how you are going to include them in your paper. This means working out a balance between the ideas you have taken from other sources and your own

original ideas. Writing an outline, or coming up with a thesis statement in which you clearly formulate an argument *about* the information you find, will help establish the boundaries between your ideas and those of your sources.

C. Take Effective Notes

One of the best ways to prepare for a research paper is by taking thorough notes from all of your sources, so that you have much of the information organized before you begin writing. On the other hand, poor note-taking can lead to many problems - including improper citations and misquotations, both of which are forms of plagiarism! To avoid confusion about your sources, try using different colored fonts, pens, or pencils for each one, and make sure you clearly distinguish your own ideas from those you found elsewhere. Also, get in the habit of marking page numbers, and make sure that you record bibliographic information or web addresses for every source right a way - finding them again later when you are trying to finish your paper can be a nightm are!

D. When in doubt, cite sources

Of course you want to get credit for your own ideas. And you don't want your instructor to think that you got all of your information from somewhere else. But if it is unc lear whether an idea in your paper really came from you, or whether you got it from somewhere else and just changed it a little, you should always cite your sou ree. Instead of weakening your paper and making it seem like you have fewer original id eas, this will actually strengthen your paper by: 1) showing that you are not just copying other ideas but are processing and adding to them, 2) lending outside support to the ideas that are completely yours, and 3) highlighting the originality of your ideas by making clear distinctions between them and ideas you have gotten elsewhere.

E. Make it clear who said what .

Even if you cite sources, ambiguity in your phrasing can often disguise the real source of any given idea, causing inadvertent plagiarism. Make sure when you mix your own ideas with those of your sources that you always clearly distinguish them. If you are discussing the ideas of more than one person, watch out for confusing pronouns. For example, imagine you are talking about Harold Bloom's discussion of James Joyce's opinion of Shakespeare, and you write: "He brilliantly portrayed the situation of a writer in society at that time." Who is the "He" in this sentence? Bloom, Joyce, or Shakespeare? Who is the "writer": Joyce, Shakespeare, or one of their characters?

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F. Know how to Paraphrase:

A paraphrase is a restatement in your own words of someone clse's ideas. Changing a few words of the original sentences does NOT make your writing a legitimate paraphrase. You must change both the words and the sentence structure of the original, without changing the content. Also, you should keep in mind that paraphrased

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vorking ur own, passages still require citation because the ideas came from another source, even though you are putting them in your own words.

The purpose of paraphrasing is not to make it seem like you are drawin g less directly from other sources or to reduce the number of quotations in your paper. It is a common misconception among students that you need to hide the fact that you rely on other sources. Actually it is advantageous to highlight the fact that other sources support your own ideas. Using quality sources to support your ideas makes them seems stronger and more valid. Good paraphrasing makes the ideas of the original source fit smoothly into your paper, emphasizing the most relevant points and leaving out unrelated information.

G. Evaluate Your Sources

Not all sources on the web are worth citing - in fact, many of them are just plain wrong. So how do you tell the good ones apart? For starters, make sure you know the author(s) of the page, where they got their information, and when they wrote it (getting this information is also an important step in avoiding plagiarism!). There you should determine how credible

you feel the source is: how well they support their ideas, the quality of the writing, the accuracy of the information provided, etc. We recommend using Portland Community, College's "rubrics for evaluating web pages" as an easy method of testing the credibility of your sources.

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IMPORTANT TERMS

Attribution

The acknowledgement that something came from another so urce.

The following sentence properly attributes an idea to its original author: Jack Bauer, in his article "Twenty-Four Reasons not to Plagiarize," maintains that cases of plaguarists being expelled by academic institutions have risen dramatically in recent years due to an increasing awareness on the part of educators.

Bibliography

A list of sources used in preparing a work

Citation

- A short, formal indication of the source of information or quoted material.
- 2) The act of quoting material or the material quoted.

Cite

- 1) to indicate a source of information or quoted material in a short, formal note.
- 2) to quote
- 3) to ascribe something to a source

Common Knowledge Information that is readily available from a number of sources, or so well-known that its sources do not have to be cited.

The fact that carrots are a source of Vitamin A is common knowledge, and you could include this information in your work without attributing it to a source. However, any information regarding the effects of Vitamin A on the human body are likely to be the products of original research and would have to be cited.

Copyright

A law protecting the intellectual property of individuals, giving them exclusive rights over the distribution and reproduction of that material.

Endnotes

Notes at the end of a paper acknowledging sources and providing additional references or information.

Facts

Knowledge or information based on real, observable occurrences. Just because something is a fact does not mean it is not the result of original thought, analysis, or research. Facts can be considered intellectual property as well. If you discover a fact that is not widely known nor readily found in several other places, you should cite the source.

Footnotes

Notes at the bottom of a paper acknowledging source s or providing additional references or information.

Fair Use

The guidelines for deciding whether the use of a source is permissible or constitutes a copyright infringement.

Intellectual Property

A product of the intellect, such as an expressed idea on concept, that has commercial value

Notation

The form of a citation; the system by which one refers to cited sources.

Original

- 1) Not derived from anything else, new and unique
- 2) Markedly departing from previous practice
- 3) The first, preceding all others in time
- 4) The source from which copies are made

Paraphrase

A restatement of a text or passage in other words

It is extremely important to note that changing a few words from an original source does NOT qualify as paraphrasing. A paraphrase must make significant changes in the style and voice of the original while retaining the essential ideas. If you change the ideas, then you are not paraphrasing - you are misrepresenting the ideas of the original, which could lead to serious trouble. (see examples in the students preventing Page)

Peer Review

Turnitin.com's teaching tool that allows students to anonymously review the work of their peers. This gives students a chance to build critical skills while helping them to see the strengths and weaknesses of their own writing.

Plagiarism

Plagiarism The reproduction or appropriation of someone elses work without proper attribution; passing off as one's own the work of someone else

Public Domain

The absence of copyright protection; belonging to the public so that anyone may copy or borrow from it.

See our section on What is public domain?

Quotation Selfplagiarism

Using words from another source

Copying material you have previously produced and passing it of as a new production. This can potentially violate copyrigh protection, if the work has been published, and is banned by most academic policies.

-88-

Annexus x-XII

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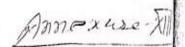
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Central University of Punjab, Bathinda

SUPERVISOR'S CERTIFICATE FOR EXCLUSION OF SELF-PUBLISHED WORK

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Annex ure - XIII

Central University of Punjab, Bathinda

	Date :
	PLAGIARISM VERIFICATION
Title of the Thesis	
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	ve thesis was scanned for similarity detection. Process and
Software	
used	Date
Similarity Index	
	Name & Signature (Checked by) (From University library)
	(From Oniversity Horary)
The complete report of the ab	ove thesis has been reviewed by the undersigned. (Check
	s below accepted norms. s above accepted norms, because of the following reasons:
1	
-2	
3	
5	
The thesis may be considered	for the award of degree. (Relevant documents attached).
Student	Supervisor

->///

Annexuz e XIV

Annexure - XXV

Central University of Punjab, Bathinda

CERTIFICATE OF ORIGINALITY

	degree has been carried out by me at the Centre of Punjab, Bathinda India is or ginal. The manuscript software.
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and is covered under the section of ex	% of the content is stated to be plagiarized clusion as per the CUPB guidelines on checking
Plagiarism.	
	Name and Signature of the Candidate

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Examination Cell

meyone-Will

Reference No: eurs/ce/cos/12/319

Date:

Office Note Subject: Report of Ph.D. VIVA-VOCE

The Viva- Voce of PhD Thesis of the following student of the Centre for Comparative Literature was held on 19.05.2017:

S.No.		Name and Registration No.	Title	Supervisor	
	a.	Shyamkiran Kaur CUPB/MPh-PhD /SLLC/ CPL/2010- 11/02	VOICING THE SILENCES: A COMPARATIVE STUDY OF THE SELECTED SHORT STORIES OF BHARATI MUKHERJEE AND BUSHRA EJAZ	Dr. Rajinder Kuma	

Prof. Rohini Agarwal, Department of Hindi, Maharishi Dayanand University, Rohtak, India, was external examiner to conduct Viva- Voce of Ms. Shyamkiran Kaur.

The following comments were given by the committee members during the Viva-voce of

1. Comments on the quality of Presentation:

Presentation of the candidate is very good. She is elegant, logical and clear in defending her case.

2. Comments on the candidate's ability to answer question from the examiners

Very good.

3. Overall Comments:

Very good. In-depth knowledge of the candidate is really adorable. I recommend that the University should award Ph.D. degree on the thesis in question of Ms. Shyamkiran Kaur.

he committee has RECOMMENDED FOR THE AWARD OF PH.D. DEGREE in his report to the candidate

\$ubmitted for perusal and order please.

Section Officer

Assistant Registrar (Examinations)

Controller of Examinations

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Office Note



Subject: Report of Ph.D. VIVA-VOCE

1. The Viva- Voce of PhD Thesis of the following student of the Centre for Environmental Sciences and Technology was held on 23.5.17.

S.No.	Name and Registration No.	Title	Supervisor
a.	Anamika Das CUPB/MPh- PhD/SEES /EVS /2009-10/02	DEGRADATION OF CHLORPYRIFOS BY LACCASE IMMOBILIZED MAGNETIC IRON NANOPARTICLES	- Janaror IIII

Dr. Sushil Kumar Kansal, Professor, Dr S S Bhatnagar University In stitute of Chemical Engg. & Technology, (Formerly Department of Chemical Engg. & Technology), Panjab University, Chandigarh, India, was external examiner to conduct Viva- Voce of Ms. Anamika Das.

The following comments were given by the committee members during the Viva-voce of

- Comments on the quality of Presentation: The Work was nicely presented by the candidate.
- 2. Comments on the candidate's ability to answer question from the examiners
 and the audience:
 The students was well acquainted with the work done has been a facility to

The students was well acquainted with the work done by her. All the Questions put to her by examiner and audience were nicely answered.

3. Overall Comments:

The overall performance was very good.

The committee has RECOMMENDED FOR THE AWARD OF PH.D. DEGREE in his report to the candidate. (CP-124+125)

Submitted for perusal and order please.

Section Officer

Assistant Registrar (Examinations)

08.6.17

Controller of Examinations

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No. of students eligible for degree of Batch 2015-16 as on 04.07.2017 America

S.No.	Name of the Programme	Pass out
1	M.A. Political Science	8
2	M.A. Punjabi	7
3	M.Phil. Economics	4
4	M.Sc. Chemical Sciences with specialization in Medicinal Chemistry	11
5	M.Sc. Chemistry (Computational Chemistry)	3
6	M.Sc. Earth and Geological Sciences	3
7	M.Sc. Environment Science and Technology	11
8	M.Sc. Life Sciences with specialization in Animal Sciences	10
	M.Sc. Life Sciences with specialization in Biochemistry	13
	M.Sc. Life Sciences with specialization in Bioinformatics	10
11	M.Sc. Life Sciences with specialization in Human Genetics	13
12	M.Sc. Life Sciences with specialization in Microbial Sciences	6
	M.Sc. Life Sciences with specialization in Molecular Medicine	. 12
14	M.Sc. Life Sciences with specialization in Plant Sciences	8
	M.Sc. Mathematics	9
	M.Sc. Physics	15
	M.Sc. Physics (Computational Physics)	4
_	A.Sc. Statistics	12
	A.A. Education	5
	A.A. English (Comparative Literature and Translation)	3
	1.A. Sociology	4
1	I.Sc. Chemical Sciences with specialization in Organic Chemistry/ Inorganic hemistry/Physical Chemistry	12
	ital	183

Final Submission of Ph.D. Thesis as on 04.07.2017

	2009-10	
1	M.Phil. Ph.d Integrated Programme in Comparative Literature	1
	2010-11	
1	M.Phil. Ph.d Integrated Programme in Environmental Science & Technology	1
	Total	2

No. of students eligible for degree of Batch 2015-16 as on 04.07.2017

S.No.	Name of the Programme	Pass out
1	M.A. Political Science	8
2	M.A. Punjabi	7
3	M.Phil. Economics	4
4	M.Sc. Chemical Sciences with specialization in Medicinal Chemistry	11
5	M.Sc. Chemistry (Computational Chemistry)	3
6	M.Sc. Earth and Geological Sciences	3
7	M.Sc. Environment Science and Technology	11
8	M.Sc. Life Sciences with specialization in Animal Sciences	10
9	M.Sc. Life Sciences with specialization in Biochemistry	13
10	M.Sc. Life Sciences with specialization in Bioinformatics	10
11	M.Sc. Life Sciences with specialization in Human Genetics	13
12	M.Sc. Life Sciences with specialization in Microbial Sciences	6
13	M.Sc. Life Sciences with specialization in Molecular Medicine	. 12
14	M.Sc. Life Sciences with specialization in Plant Sciences	8
15 /	M.Sc. Mathematics	9
16 1	VI.Sc. Physics	15
17 N	M.Sc. Physics (Computational Physics)	4
18 1	A.Sc. Statistics	12
19 N	A.A. Education	5
20 N	1.A. English (Comparative Literature and Translation)	3
1 N	1.A. Sociology	4
/	1.Sc. Chemical Sciences with specialization in Organic Chemistry/Inorganic hemistry/Physical Chemistry	12
To	ital	183

Final Submission of Ph.D. Thesis as on 04.07.2017

	2009-10	
1	M.Phil. Ph.d Integrated Programme in Comparative Literature	1
	. 2010-11	
1	M.Phil. Ph.d Integrated Programme in Environmental Science & Technology	1
	Total	2

Central University of Punjab, Bathinda **NOTIFICATION**



The following students of M.A./M.Sc. Programme of Academic Session 2015-16 have completed the requirements of M.A. /M.Sc. Degree in their respective Programme achieving CGPA/Lette r Grade as

S.No.	Name	Davidson M. M.	Cumulative	E 100 E 0
3.140.	ivame	Registration No. M.Sc. Statistics	Result (CGPA)	Letter Grad
1	Gundeep Kaur	15msstat03	7.42	
2	Rajanpal	15msstat01	7.42	A
3	Deepika Jain	15msstat01	7.20	A
4	Ramandeep Kumar	15msstat02	6.61	A B+
5	Anjali	15msstat02	6.58	B+
6	B M Nayana	15msstat04	6,39	B+
7	Neeraj Sharma	15msstat11	6.19	B+
8	Ramgopal Dhaka	15msstat08	6.10	B+
9	Parwinder Singh	15msstat07	5.94	B
10	Fayaz Ahmed	15msstat14	5.93	В
11	Avtar Singh	15msstat12	5.92	В
12	Gagandeep Singh	15msstat10	5.76	В
-		s (Computational Physics		Ь
1	Sanjay Sharma	15msphcp01	7.24	A
2	Richa	15msphcp04	6.70	B+
3	Pawan Deep	15msphcp03	6.49	B+
4	Kamni	15msphcp05	6.14	B+
		Sc. Mathematics	0.14	D+
1	Diksha Garg	15msmath02	8.03	^
2	Sandeep Singh Gaur	15msmath13	7.82	A
3	Naresh Kumar	15msmath08	7.51	A
4	Manpreet Kaur	15msmath12	6.78	B+
5	Mukesh Sabal	15msmath09	6.56	B+
6	Ajay Kumar	15msmath05	6.04	В
7	Deepak Kumar Yadav	15msmath01	6.02	В
8	Ghulam Haider	15msmath11	5.63	В
9	Tejpal Singh Paliwal	15msmath10	5.32	В
-		th Specialization in Plant		В
1	Komal Mansotra	15mslsps06	7.71	A
2	Anish Gupta	15mslsps05	7.48	A
3	Varun Kumar	15mslsps02	7.13	A
4	Rubal Garg	15mslsps01	7.02	B+
5	Souradeep Banerjee	15mslsps03	6.97	B+
6	Mohammed Asif Chowdhary	15mslsps10	6.21	B+
7	Anju V	15mslsps07	5.77	В
8	Bharti	15mslsps09	5.68	В
0	M.Sc. Life Sciences with S			
1	Indranii De	15mslsmm05	8.01	А
2	Akshay Binayke	15mslsmm02	7.99	A
3	Sarthak Mishra	15mslsmm07	7.49	A
4	Priyanshu Shukla	15mslsmm03	7.47	A
5	Ved Prakash	15mslsmm06	7.39	A
6	Mohit	15mslsmm01	6.97	B+

			Cumulative	
S.No.	Name	Registration No.	Result (CGPA)	Letter Grad
7	Chanpreet Kaur	15mslsmm09	6.46	B+
8	Ashu Sharma	15mslsmm15	6.28	B+
9	Maiya Shaiza	15mslsmm11	6.23	B+
10	Karamjeet Kaur	15mslsmm13	5.51	В
11	Premta Kumari	15mslsmm14	5.44	В
12	Harneet Kaur	15mslsmm12	5.42	В
		with Specialization in Hum	an Genetics	,
1	Babita Sharma	15mslshg15	7.77	A
2	Ruchika Maurya	15mslshg08	7.34	A
3	Shweta Kaul	15mslshg02	7.22	A
4	Lakshmi S	15mslshg05	7.19	A
5	Pratibha	15mslshg07	7.17	Α
6	Abhishek Singh	15mslshg03	7.04	B+
7	Sonali Raut	15mslshg12	6.99	B+
8	Nupur Gupta	15mslshg01	6.99	B+
9	Anjali Shailani	15mslshg11	6.91	B+
10	Mamta Kumari	15mslshg14	6.57	B+
11	Pallavi Atul Prakash	15mslshg06	6.32	B+
12	Lakhveer Kaur	15mslshg13	5.99	В
13	Pratibha Choudhary	15mslshg10	5.60	В
		with Specialization in Bioin		CONTRACT OF THE PARTY OF THE PA
	Madhumita	15mslsbf01	8.17	A+
	Amit	15mslsbf02	8.00	Α
	Ritu	15mslsbf06	7.31	Α
	Niharika .	15mslsbf09	7.06	B+
	Rupinder Kaur	15mslsbf12	7.04	B+
	lyoti	15mslsbf03	7.04	B+
	Karamveer	15mslsbf08	-7.01	B+
	ukkani Laxman Kumar	15mslsbf07	6.83	B+
	Shilpa Rana	15mslsbf05	6.59	B+
10 F	ramod Kumar	15mslsbf10	6.09	В
. 1		vith Specialization in Anima		
	Sushree Shyamli	15mslsas10	7.51	A
	njali Kharb	15mslsas04	7.05	B+
	raham Jahan	15mslsas13	7.01	B+
	andari Naga Chandra	15mslsas12	6.91	B+
	mbika Kumari	15mslsas02	6.72	B+
	andana Singh	15mslsas01	6.68	B+
-	leenu Saini	15mslsas09	6.46	B-+
	ipriti Sandhu	15mslsas08	6.38	B+
	nia Devi	15mslsas07	6.35	B+
.0, Na	akul Raj	15mslsas05	6.05	В
liz-	M.Sc. Chemist	ry (Computational Chemist		
	mal Yadav	15mscscc02	7.67	A
	atibha Loyal	15mscscc01	6.80	B+
Po	oja Mittal	15mscscc04	6.34	B+
1		M.Sc. Physics		
	habh Kumar	15mscphy09	8.07	A
Table 1	ash Bansal	15mscphy01	7.66	A
	endra Prasad Jha	15mscphy05	7.53	A
	hori Lal	15mscphy11	7.44	Α .
Nir	bhay Singh	15mscnhw10	7 18	Λ

S.No.	Name	Registration No.	Cumulative Result (CGPA)	Letter Grade
6	Shilpa Singh	15mscphy04	7.10	A
7	Souren Adhikary	15mscphy08	7.04	B+
8	Rahul Chauhan	15mscphy07	7.02	B+
9	Rohit Sharma	15mscphy06	7.02	B+
10	Ganesh Kumar Nayak	15mscphy03	6.87	B+
11	Komal Kanwar	15mscphy02	6.79	B+
12	Amit Kumar	15mscphy12	6.26	B+
13	Eshrat Mushtag	15mscphy14	6.00	В
14	Fayaz Ahmed Fazil	15mscphy15	5.73	В
15	Mandeep Singh	15mscphy13	5.61	В
	M.Sc. Enviro	nmental Science and Techno		
1	Sweta Choubey	15mscest03	8.16	A+
2	Ankur Bhardwaj	15mscest01	<i>≠</i> 7.78	Α
3	Deepika	15mscest02	* 7.39	А
4	Shashank Singh	15mscest05	7.34	Α
5	Meenakshi Rawat	15mscest04	7.31	A
6	Gregory George	15mscest06	7.09	B+
7	Bindu Bala	15mscest09	6.84	B+
8	Gurvir Kaur	15mscest10	6.71	B+
9	Kamaljeet Kaur	15mscest11	6.08	В
10	Tejinder Singh	15mscest12	6.00	В
11	Imtiyaz Aalam	15mscest08	5.13	В
	M.Sc. Ear	th and Geological Sciences		
1	Deepak Choudhary	15mscegs03	7.58	А
2	Neeraj Kumar	15mscegs04	7.35	Α
3	Sushil Kumar Lalotra	15mscegs05	7.32	Α
	M.Sc. Chemical Sciences	with specialization in Medi	cinal Chemistry	
1	Manpreet Kaur	15mscchs03	7.93	Α
2	Surbhi	15mscchs15	7.00	B+
3	Ammu M	15mscchs02	6.79	- B+
1	Mir Sahidul Ali	15mscchs09	6.68	B+
5	Jyoti Yadav	15mscchs14	6.61	B+
6	Punam Salaria	15mscchs12	6.61	B+
7	Abhilash Rana	15mscchs05	6.59	B+
8	Reena Yadav	15mscchs11	6.23	B+
9	Prateek Singh Bora	15mscchs01	6.19	B+
10	Mridul	15mscchs13	5.98	В
11	Suresh Saini	15mscchs07	5.70	В

The students should note that:

Detail Marks cards shall be issued on receipt of No dues Certificate in Academic Section.

Copy to:

1. VC Sectt: for the kind information to the Hon'ble Vice-chancellor

2. Dean Academic Affairs

- 3. Registrar: for information
- 4. Concerned Dean (s)
- 5. Concerened COC
- 6. Accounts Section
- 7. Students Notice Board
- 8. System Analyst: for upload on University website

9. Office Copy

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Controller of Examinations

S.No.	Name	Registration No.	Cumulative Result (CGPA_)	Letter Grade
	M.Sc. Life Sciences w	ith Specialization in Mid	crobial Sciences	1
1	Md Naiyaz Ahmad	15mslsms06	7.24	А
2	Parikshita Rathore	15mslsms03	7.24	А
3	Manpreet Kaur	15mslsms02	7.01	B+
4	Adarsh Shukla	15mslsms04	6.70	8+
5	Sunita Karki	15mslsms01	6.50	B+
6	Ayushi Bhatia	15mslsms07	5.97	В
-	M.Sc. Life Sciences	with Specialization in B	iochemistry	
1	Satveer Kaur	15mslsbc02	8.51	A+
2	Dev Madhubala	15mslsbc05	7.40	A
3	Malaya Ranjan Behera	15msisbc12	6.92	_B+
4	Randeep Singh	15mslsbc14	6.85	B+
5	Panchi Rani Neog	15mslsbc06	6.82	. B+
6	Pratibha Singh	15mslsbc04	6.81	B+ -
7	Sukhwant Dagar	15mslsbc03	6.53	B+
8	Ajay Kumar	15mslsbc10	6.16	B+
9	Jasveer Kaur	15mslsbc08	6.04	В
10	Amandeep Kaur	15mslsbc16	6.01	, В
11	Shabbir All	15mslsbc13	5.77	В
12	Jaswant Singh	15mslsbc01	5.75	\ B
13 .	Aarti Yadav	15mslsbc07	5.59	В
		M.A. Punjabi	Well available	
1	Hardeep Sharma	15mapunj03	7.44	A
2	Ranjodh Singh	15mapunj06	6.49	B+
3	Amandeép Kaur	15mapunj07	6.43	B+
4	Amandeep Kaur	15mapunj09	6.35	8+ ⅓
5	Komaljeet Kaur	15mapunj08	6.18	B+
6	Amandeep Kaur	15mapunj04	5.85	В
7	Rimpy Rani	15mapunj05	5.52	В

of My or

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	M.A. Po	litical Sciences		- 3
1	Adarsh Kumar	rsh Kumar 15maplsc08		A+
2	Muzaffar Hussain	15maplsc04	8.19	A+
3	Mansoor Ahmed	15maplsc03	7.84	A
4	Jasvir Kour	15maplsc02	7.77	А
5	Zulifqar Ahmed	15maplsc01	7.46	А
6	Vedprakash Saini	15maplsc07	7.35	A
7	Mohammed Waseem	15maplsc09	6.66	B+
8	Ranvijay Singh Panwar	15maplsc06	6.43	B.

The students should note that:

Debuil Marks cards shall be issued on receipt of No dues Certificate in Academic Secti on.

Controller of Examinations

Copy to:

- 1. VC Sectt: for the kind information to the Hon'ble Vice-changellor
- 2. Dean Academic Affairs
- 3. Registrar: for information
- 4. Concerned Dean (s)
- 5. Concerened COC
- 6. Accounts Section
- 7. Students Notice Board
- 8. System Analyst: for upload on University website
- 9. Office Copy

Ripho CUPBICC/COE/13/result/19

Central University of Punjab, Bathinda

NOTIFICATION



The following students of M.A./M.Sc. Programme of Academic Session 2015-16 have co-impleted the requirements of M.A./M.Sc. Degree in their respective Programme achieving CGPA/Let ter Grade as shown against their names.

Cummulative Result of 2015-16 Batch (Semester- 1,2,3 & 4th)

S.No.	Name	Registration No.	Cumulative Result (CGPA)	Letter Grade
,	M.Sc. Chemical Science	es (Inorganic/Organic/Phy	sical Chemistry)	
1	Dependu Dolui	15mscsoi07	8.37	A+
2	Shubhranshu Bhandari	15mscsol05	8.05 -	A
3	Shivani Rani	15mscsoi02	7.44	À
4	Diptiranjan Paital	15mscsoi09	7.36	Α
5	Poornima Kamboj	15mscsoi12	6.63	B+
6	Kartikey Dhar Dwivedi	15mscsoi06	6.39	B+
7	Karanpal Singh	15mscsoi11	6.37	B+
8	Debayan Roy	15mscsol04	6.26	B+
9	Jyoti	15mscsoi15	6.21	B+
10	Kushal Kumar	15mscsoi10	6.12	B+
11	Simranjeet Singh	15mscsoi14	5.99	В
12	Kirti	15mscsol13	5.68	В
		M.A. English		
1	Manpreet Kaur	15maengs05	6.55	B+ .
2	Amandeep Kaur	15maengs04	6.29	B+
3	Ramandeep Kaur	15maengs02	5.72	В
		M.A. Sociology		
1	Jagdeep Singh	15masolg01	7.88	Α
2	Tamim Akhter	15masolg06	5.79	В
.)	Happy Singh	15masolg64	5.54	8
4	Ramandeep Kaur	15masolg05	4.94	¢
		M.A. Education		
1	Diksha Sandhu	15maeduc05	7.74	A
2	Shazia Kouser	15maeduc01	7.28	· A
3	Ghulam Mustafa	15maeduc02	7.19	A
4	Abid Nazir	15maeduc04	6.99	B+
5	Mohd Shafiq	15maeduc06	6.93	B+

The students should note that:

Deatil Marks cards shall be issued on receipt of No dues Certificate in Academic Section.

Control

Controller of Examination

Cópy to:

- 1. VC Sectt: for the kind information to the Hon'ble Vice-chancellor
- 2. Dean Academic Affairs
- 3. Registrar: for information
- 4. Concerned Dean (s)
- 5. Concerened COC
- 6. Accounts Section
- 7. Students Notice Board
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- 9. Office Copy



Central University of Punjab



(Established vide an act of Parliament in 2009)
EXAMINATION CELL

Ref. No.:CUPB/CC/COE/17/result//5

Date: 69,06. .2017

NOTIFICATION

 The following students of M.Phil. Programme of academic session 2015-16 have com pleted the requirements of degree of M.Phil. Economics Studies achieving CGPA/Letter Grade as shown against their names:

S. No.	Name of the student	Registration No.	Centre	CGPA/ Letter Grade (Cumulative Sem-I & II)	Date of completion
1.	Minesh Kumar Srivastava	15mpheco05	Economic	8.10/A+	24.05.2017
2	Poonam Rani	15mpheco011	Studies	6.93/B+	20.042017

The student should note that:

- They will deposit proportionate fee for use of hostel facility during the intervening period covering closure of 3rd semester to the date of submission of his dissertations.
- They will submit a no dues certificate to this office to be eligible to receive marks sheet for M.Phil. degree.

Controller of Examinations

Copy to:

- 1. VC Sectt.; for the kind information of the Vice Chancellor
- 2. Dean Academic Affairs
- 3. Registrar
- Concerned COC/OIC
- Concerned supervisor
- 6. Accounts Section
- Personal File of the Student
- Student Notice Board
- 9. Office Copy



Central University of Punjab



(Established vide an act of Parliament in 2009)

EXAMINATION CELL

ANNEXURE -15.15

Ref. No.:CUPB/CC/COE/17/result/09

Date:- 17.05. 2017

NOTIFICATION

 The following student of M.Phil. Programme of academic session 2014–15 have completed the requirements of degree of M.Phil. Economics achieving OWAM/CGPA/Letter Grade as shown against her/his name:

S. No.	Name of the student	Registration No.	Centre	CGPA/ Letter Grade (Cumulative Sem-I & II)	Date of completion
1.	Arvind Kumar Yadav	15mpheco08	Economic Studies	7.96/A	03.04.2017
3/	Preeti	15mpheco09		7.26/A	03.04.2017

The student should note that:

- She/He will deposit proportionate fee for use of hostel facility during the intervening period covering closure of 3rd semester to the date of submission of her/his dissertation.
- 3. She/He will submit a no dues certificate to this office to be eligible to receive marks sheet for M.Phil. degree.

Controller of Examinations

Copy to:

- VC Sectt.: for the kind information of the Vice Chancellor
- 2. Dean Academic Affairs
- 3. Registrar
- Concerned COC/OIC
- Concerned supervisor
- 6. Accounts Section
- Personal File of the Student
- 8. Student Notice Board
- Office Copy

ANNEXURE-15:17

Me Gazette of India

असाधारण

EXTRAORDINARY

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PART III-Section 4

प्राधिकार से प्रकाशित

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NEW DELHI, WEDNESDAY, JULY 20, 2016/ASADHA 29, 1938

विश्वविद्यालय अनुदान आयोग

विश्वविद्यालय अनुदान आयोग ('स्वयं' के माध्यम से ऑनलाइन ज्ञान-अर्जन पाठ्यक्रमों हेतु क्रेडिट ढ़ाँचा) विनियम,

नई दिल्ली, 19 जुलाई, 2016

मि0 सं0 1-100/2016/मूक्स(ई-कॉंटेंट) 1. प्रस्तावना.-

- 1.1 जबिक शिक्षा के प्रसार हेतु उच्चतर शिक्षा तक पहुंच को व्यापक बनाया जाना तथा प्राद्यौगिकी में हुई प्रगति का उपयोग कर तत्संबंधी लागत को कम करना है,
- 1.2 जबिक पारम्परिक एवं ऑनलाइन शिक्षा सहित. शिक्षा प्रदान करने के लिए वृहद् मुक्त ऑनलाइन पात्यकम (एमओओसी) एक व्यावहारिक मॉडल के रूप में उभरे हैं,
- 1.3 जबिक ऑनलाइन ज्ञान-अर्जन के भारतीय स्वरूप "स्वयं" (युवा एवं उच्चाकांशी बौद्धिकों के लिए सिक्रय ज्ञान-अर्जन की अध्ययन पद्धति) को ज्ञान-अर्जन के स्वदेशी प्लेटफॉर्म पर आरंभ किया जा रहा है।
- 1.4 जबिक ई—ज्ञान अर्जन की कहीं—भी, कभी—भी पद्धित तथा पारंपिरक और कक्षागत चॉक—एंड—टॉक अध्यापन पद्धित के बीच तालमेल बिठाने की आवश्यकता है तािक एक अनुपम विषयवस्तु अंतरण प्रणाली को विकसित किया जा सक जो शिक्षार्थियों की आवश्यकताओं की पूर्ति कर सके तथा भौगोलिक सीमाओं से इतर ज्ञान का निर्बाध अंतरण सुनिश्चित कर सके।
- 1.5 जबिक एक ऐसी विनियामक प्रणाली स्थापित किए जाने की आवश्यकता है, जिससे ऑनलाइन ज्ञान—अर्जन तथा सामान्य कक्षागत ज्ञान—अर्जन के बीच निर्बाध संबंध स्थापित किया जा सके।

अतः अबः

विश्वविद्यालय अनुदान आयोग, विश्वविद्यालय अनुदान आयोग अधिनियम, 1956 (1956 का तीसरा) की धारा 26 की उप–धारा(1) के खण्ड (च) और (छ) के अन्तर्गत प्रदत्त शक्तियों का प्रयोग करते हुए निम्नवत विनियम बनाता है, नामतः

लघु शीर्ष, अनुप्रयोग एवं प्रवर्तनः

- 2.1 इन विनियमों को विश्वविद्यालय अनुदान आयोग ('स्वयं' के माध्यम से ऑनलाइन ज्ञान-अर्जन पाठ्यक्रमों हेतु क्रेडिट ढाँचा) विनियम, 2016 कहा जाएगा।
- 2.2 यह विनियम किसी केन्द्रीय अधिनियम, प्रान्तीय अधिनियम, अथवा किसी राज्य/संघशासित प्रदेश अधिनियम के अन्तर्गत रथापित और निगगित राभी विश्वविद्यालयों तथा ऐसे विश्वविद्यालयों से मान्यताप्राप्त सभी संस्थानों तथा विश्वविद्यालय अनुदान आयोग अधिनियम, 1956 की घारा 3 के तहत ऐसे सभी समविश्वविद्यालय संस्थानों पर लागू होंगे।
- 2.3 यह विनियम ऐसे छात्रों के क्रेडिट अंतरण पर भी लागू होंगे जिन्होंने देश में किसी भी शैक्षिक संस्थान में एक नियमित/अंशकालिक छात्र के रूप नामांकन प्राप्त किया है।
- 2.4 यह विनियम शासकीय राजपत्र में प्रकाशन की ति: प से लागू होंगे।

3642 GI/2016

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3. परिभाषाएं

- 3.1 'शैक्षिक परिषद्' एक निकाय होता है जिसे 'स्वयं' के माध्यम से अनुभेय ऑनलाइन ज्ञान—अर्जन पाठ्यक्रमों के संबंध में निर्णय लेने सहित किसी संस्थान में सभी शैक्षिक मामलों के संबंध में भी निर्णय लेने हेतु शक्ति प्राप्त होती है।
- 3.2 'पाठ्यक्रम' का अभिप्राय एक पत्र से होगा जिसे विषय के भाग के रूप में कम से कम एक सेमेस्टर तक पढ़ाया जाएगा।
- 3.3 'चतुर्ष्पदीय पद्धति': चतुर्ष्पदीय पद्धति का अभिप्राय एक ई-ज्ञान अर्जन प्रणाली से है, जिसके निम्नवत घटक हों
 - प्रथम पद एक ई—अनुशिक्षण हैः जिसमें एक सुव्यवस्थित रूप में दृश्य—श्रव्य विषयवस्तु, एनीमेशन फिल्में, निस्युलेशन, वर्चुअल लैब अंतर्विष्ट हैं।
 - द्वितीय पद एक ई—विषयवस्तु है: जिसमें जहां—कहीं भी आवश्यक हों, पीडीएफ, ई—पुस्तकें, दृष्टांत, वीडियो प्रदर्शन, दस्तावेज और इंटरेक्टिव स्म्युलेशन अंतर्विष्ट हैं।
 - तृतीय पद एक वेब—संसाधन है: जिसमें विषय से संबंधित लिंक, इंटरनेट पर मुक्त वस्तुविषय, मामला अध्ययन, उपाख्यान संबंधी जानकारी, विषयों तथा लेखों का क्रमिक विकास अंतर्विष्ट हैं।
- चतुर्थ पद एक स्व–मूल्यांकन पद्धित है: जिसमें बहु विकल्प प्रश्न (एमसीक्यू), समस्या, प्रश्नोत्तरी, निर्दिष्ट कार्य रूपं उनके हल, चर्चा हेतु मंच के विषय तथा बार–बार पूछे जाने वाले प्रश्न (एफएक्यू), सामान्य भ्रान्तियों के संबंध में स्न्यष्टीकरण अंतर्विष्ट हैं।
- 3.4 'मेजबान संस्थान' का अभिप्राय उस संस्थान से है जिससे पाठ्यक्रम की पेशकश करने वाला मुख्य अन्वेषक (पीआई)/विषय विशेषज्ञ (एसएमई) संबंद्ध है तथा जिसे विनियामक प्राधिकरण द्वारा विधिवत् रूप से मान्यता प्रदान्न की गई है/अनुमोदित किया गया है।
- 3.5 'संस्थान' का अभिप्राय देश में पंजीकृत तथा कार्य प्रचालन करने वाले किसी शिक्षा संस्थान से है।
- 3.6 'वृहद् मुक्त ऑनलाइन पाठ्यक्रम' (एमओओसी) ऐसे <u>ऑनलाइन पाठ्यक्रम</u> हैं जो यहां उल्लिखित चतुर्ष्यदीय शिक्षणशास्त्रीय पद्धति के अनुरूप विकसित किये गये हैं तथा भारत सरकार के 'स्वयं' प्लेटफॉर्म पर उपलब्ध कराये गए हैं।
- 3.7 'वृहद् मुक्त ऑनलाइन पाठ्यक्रम' (एमओओसी) संबंधी दिशानिर्देशों' का अभिप्राय ऑनलाइन—ज्ञानअर्जन के विषय पर मानव संसाधन विकास मंत्रालय द्वारा जारी किए गए दिनांक 11 मार्च, 2016 के दिशानिर्देशों तथा मानव संसाधन्न विकास मंत्रालय द्वारा जारी किये गये तत्संबंधी उत्तरवर्ती अनुबंधों से है।
- 3.8 'राष्ट्रीय वृहद् मुक्त ऑनलाइन पाठ्यक्रम समन्वयकर्ता' (एनएमसी) भारत सरकार द्वारा इस प्रयोजनार्थ विनिर्दिष्ट ऐसी एक राष्ट्रीय स्तरीय एजेन्सी है जिसका उद्देश्य ऑनलाइन पाठ्यक्रमों को तैयार करने संबंधी कार्य का समन्वय क>रना तथा ज्ञान अर्जन के एक विनिर्दिष्ट क्षेत्र में उनकी गुणवत्ता की निगरानी करना है।
- 3.9 'मूल संस्थान' का अभिप्राय उस संस्थान/विश्वविद्यालय/महाविद्यालय से है जहां पर छात्र एक नियमित/आँशकालिक छात्र के रूप में नामांकित है।
- 3.10 'प्रधान अन्वेषक' (पीआई): प्रधान अन्वेषक किसी प्रतिष्ठित शैक्षिक संस्थान से एक विषयवस्तु विशेषज्ञ (एसए मई) होगा जिसे एनएमसी द्वारा दिए गए किसी विशिष्ट क्षेत्र में वृहद् मुक्त ऑनलाइन पाठ्यक्रम' (एमओओसी) विकसित करने तथा पूर्ण करने का कार्य सौंपा गया हो।
- 3.11 'क्षेत्र' का अभिप्राय ज्ञान अर्जन के एक विशिष्ट स्तर जैसे कि माध्यमिक विद्यालय, अभियांत्रिकी/अभियांत्रिकी से इतर डिप्लोमा/उपाधि/स्नातकोत्तर स्तर से है।
- 3.12 'विषय' का अभिप्राय शिक्षा संस्थान में पढ़ाई जा रही एक ऐसी विधा से है (जैसे-गणित) जिसमें विशिष्ट पाठ्यक्रम मौजूद हैं तथा जिनमें परिणामतः प्रमाणपत्र/डिप्लोमा/उपाधि प्रदान की जाती है।
- 3.13 'स्वयं—मंच' मानव संसाधन विकास मंत्रालय, भारत सरकार द्वारा विकसित किया गया तथा चलाया जा रहा एक ऐसा सूचना प्रौद्योगिकी प्लेटफॉर्म है जिसका उद्देश्य वृहद् मुक्त ऑनलाइन पाठ्यक्रम (एमओओसी) पद्धति पर ऑनलाइन ज्ञान—अर्जन पाठ्यक्रमों की पेशकश करना है।

4. ऑनलाइन ज्ञान अर्जन पाठ्यक्रमः

- 4.1 मेजबान संस्थान के माध्यम से राष्ट्रीय वृहद् मुक्त ऑनलाइन पाठ्यक्रम समन्वयकर्ता द्वारा अंतिम रूप से तैयार की गई अनुसूची के अनुरूप चिद्धित पीआई द्वारा 'स्वयं' के प्लेटफॉर्म पर ऑनलाइन ज्ञान—अर्जन पाठ्यक्रम उपलब्ध कराए जाएंगे।
- 4.2 'स्वयं' प्रतिवर्ष <u>01 जून</u> तथा <u>01नवम्बर</u> को, संस्थानों के सभी कुल सचिवों को आगामी सेमेस्टर में पेशकश किए जा रहे पर ऑनलाइन ज्ञान—अर्जन पाठ्यक्रमों के संबंध में जानकारी मुहैया कराएगा।
- 4.3 सभी संस्थान 'स्वयं' द्वारा अधिसूचना जारी किए जाने की तिथि से चार सप्ताह के भीतर सक्षम प्राधिकारी के माध्यम से 'रवयं' के प्लेटफॉर्म द्वारा पेशकश किए जा रहे ऑनलाइन पाठ्यक्रमों पर विचार करेगी तथा अपनी शिक्षा संबंधी अपेक्षाओं को ध्यान में रखते हुए उन पाठ्यक्रमों के संबंध में निर्णय लेगा जिन्हें वह क्रेडिट अंतरण की अनुमति प्रदान करेगा।

बशर्ते कोई भी संस्थान किसी एक सेमेस्टर में किसी विशिष्ट कार्यक्रम में पेशकश किए जा रहे कुल पाठ्यक्रमों के 20 प्रतिशत पाठ्यक्रमों को ही 'स्वयं' प्लेटफॉर्म पर आनॅलाइन ज्ञान अर्जन पाठ्यक्रमों के माध्यम से पेशकश करने की स्वीकृति प्रदान कर सकता है।

4.4 यह निर्णय लेते हुए, विद्या परिषद, अन्य बातों के साथ-साथ स्वयं' के ऑनलाइन पाठ्यक्रमों को स्वीकृति प्र दान करने पर विचार कर सकती है, यदिः

- क) संस्थान में किसी पाठ्यक्रम को चलाने के लिए उपयुक्त शिक्षण कर्मचारिवृंदों की अनुपलब्धता हो अथवा
- ख) छात्रों के इच्छित वैकल्पिक पत्र (पाठ्यक्रमों) की पेशकश करने के लिए सुविधाएं संस्थान में उपलब्ध्न नहीं हों परंतु वे 'स्वयं' के मंच पर उपलब्ध हों।
- ग) 'स्वयं' के माध्यम द्वारा पेशकश किए गए पाठ्यक्रम, संस्थान की शिक्षण−ज्ञान अर्जन प्रक्रिया को लाभ प्राहुंचायेंगे।
- 4.5 संस्थान की कक्षा में प्रत्येक ऐसा छात्र जिसने किसी विशिष्ट पत्र (पाठ्यक्रम) का चुनाव किया हो जसे जस पाठ्यक्रम/पत्र हेतु वृहद् मुक्त ऑनलाइन पाठ्यक्रम (एमओओसी) के लिए पंजीकरण कराना अपेक्षित होगा।
- 4.6 'स्वयं' के माध्यम से पेशकश किए जा रहे ऑनलाइन ज्ञान—अर्जन पाठ्यक्रमों को स्वीकृति देते हुए यह सुनिश्चित किया जाएगा कि पाठ्यक्रमों को चालू रखने के लिए मूल संस्थान द्वारा अनिवार्य वास्तविक सुविधाएं यथा प्रयोगशालाएं, कम्प्यूटर सुविधाएं, पुस्तकालय आदि निशुल्क तथा पर्याप्त मात्रा में उपलब्ध कराई जाएंगी।
- 4.7 मूल संस्थान द्वारा पाठ्यक्रम की संपूर्ण अवधि के दौरान छात्र को मार्गदर्शन उपलब्ध कराने तथा प्रयोगशाला/क्रियात्मक सत्रों/परीक्षा को सुविधापूर्ण ढ़ग से आयोजित करवाने के लिए एक पाठ्यक्रम समन्वयकत**र्र**/सुविधा प्रदाता को नियुक्त किया जाए।

वृहद् मुक्त ऑनलाइन पाठ्यक्रमों का मूल्यांकन एवं प्रमाणीकरण

- 5.1 मेजबान संस्थान और प्रधान अन्वेषक (पीआई) उनके द्वारा आरंभ किए गए वृहद् मुक्त ऑनलाइन पाठ्यक्रम (एमओओसी) हेतु पंजीकृत छात्रों के मूल्यांकन के लिए उत्तरदायी होंगे।
- 5.2 मूल्यांकन पूर्व-निर्धारित मानदंडों तथा मानकों पर आधारित होंगे तथा पाठ्यक्रम की संपूर्ण अवधि के दौरान विनिर्दिष्ट साधनों जैसे चर्चा, मंच, प्रश्नोत्तरी, निर्दिष्ट कार्य, सत्रीय परीक्षाओं और अन्तिम परीक्षाओं के माध्यम से व्यापक मूल्यांकन पर आधारित होंगे।
- 5.3 जबकि परीक्षा हेतु ऑनलाइन पद्धति को प्राथमिकता दी जानी चाहिए, तथापि, प्रधान अन्वेषक (पीआई) अन्तिम परीक्षा को संचालित करने की पद्धति पर निर्णय लेने हेतु प्राधिकृत होगा। पाठ्यक्रम को पेशकश किए जाने के समय पाठ्ऱ्यक्रम की विवरणिका में इस संबंध में घोषणा की जाएगी।
- 5.4 यदि अन्तिम परीक्षा लिखित में संचालित की जाती है तो इसे आयोजित करने हेतु इच्छुक किसी महाविद्यालय/विद्यालय के माध्यम से आयोजित करवाया जाना चाहिए। इस संबंध में अंतिम निर्णय प्रधान अन्वेषक (पीआई) तथा गेजवान रांरथान द्वारा लिया जाएगा।
- 5.5 परीक्षा संचालित करवाने तथा मूल्यांकन पूर्ण किए जाने के पश्चात मेजबान संस्थान के माध्यम से प्रधान अन्वेषक (पीआई) घोषित की गई मूल्यांकन योजना के अनुसार अंक / ग्रेड प्रदान करेगा।
- 5.6 अन्तिम परीक्षा के समापन की तिथि से चार सप्ताह के भीतर छात्र के साथ-साथ उनके मूल संस्थान को अन्तिम अंक/ग्रेड की जानकारी भेजी जाएगी।
- 5.7 मूल संस्थान 'स्वयं' पाठ्यक्रम के प्रधान अन्वेषक (पीआई) द्वारा मेजबान संस्थान के माध्यम से छात्र द्वारा प्राप्त किए गए अंक / ग्रेड को छात्र की अंक तालिका में शामिल करेगा जिसकी विश्वविद्यालय द्वारा अंतिम रूप से उपाधि / डिप्लोमा प्रदान करने के लिए गणना की जाती है, बशर्ते कि जिन कार्यक्रमों में प्रयोगशाला / प्रयोगात्मक धटक सम्मिलित हों, तो मूल संस्थान, प्रयोगात्मक / प्रयोगशाला घटक हेतु छात्रों का मूल्यांकन करेगा और तद्नुसार इनमें प्राप्त अंकों / ग्रेडों को समग्र अंको / ग्रेड में सम्मिलित करेगा।
- 5.8 वृहद् मुक्त ऑनलाइन पाठ्यक्रम (एमओओसी) के सफलतापूर्वक पूर्ण हो जाने के संबंध में प्रमाणपत्र पर प्रधान अन्वेषक द्वारा हस्ताक्षर किए जाएंगे तथा इन्हें मेजबान संस्थान द्वारा जारी किया जाएगा और मूल संस्थान को भेजा जाएगा।

एगओओसी की क्रेडिट मोबिलिटी

- 6.1 'स्वयं' प्लेटफॉर्म के माध्यम से छात्रों द्वारा ऑनलाइन ज्ञान अर्जन पाठ्यक्रमों द्वारा अर्जित किए गए क्रेडिट के लिए मूल संस्थान छात्रों को समकक्ष क्रेडिट प्रदान करेगा।
- 6.2 कोई भी विश्वविद्यालय वृहद् मुवत ऑनलाइन पाउ्यक्रमों (एमओओसी) के माध्यम से अर्जित क्रेडिट की मोबिलिटी के लिए किसी भी छात्र को इंकार नहीं करेगा।
- वृहद् मुक्त ऑनलाइन पाठ्यक्रमों (एमओओसी)के अबाधित समेकन हेतु विश्वविद्यालय के नियमों तथा विनियमों में किए जाने वाले अपेक्षित संशोधन
 - 7.1 प्रत्येक संस्थान, इन विनियमों को जारी किए जाने की तिथि से चार सप्ताह के भीतर अपने सक्षम प्राधिकारी के माध्यम से अपने अध्यादेशों, नियमों, विनियमों आदि में किए जाने वाले अपेक्षित संशोधनों के बारे में निर्णय लेगा तािक इन विनियमों के उपबंधों को उनमें सम्मिलित किया जा सके।



8 अनंतिम उपाय

8.1 विश्वविद्यालय अनुदान आयोग तीन वर्ष के इस अवस्थान्तरणीय काल के दौरान इन विनियमों के कार्यान्वयन के समक्ष आने वाले मुद्दों का समाधान करने के लिए एक स्थायी समिति का गठन करेगा।

> प्रो. जसपाल एस सन्धू, सचिव, ऱ्यूजीसी [विज्ञापन—III/4/असा./18-2 (113)]

UNIVERSITY GRANTS COMMISSION

UGC (Credit Framework for Online Learning Courses through SWAYAM) Regulation, 201 €.

New Delhi, the 19th July, 2016

No. F.1-100/2016(MOOCs/e-content) 1. Preamble.—

- 1.1 Whereas Education has to widen the access to higher education and bring down its cost by using technological advances,
- 1.2 Whereas Massive Open Online Courses (MOOCs) have emerged as a viable model for imparting eclucation, involving conventional and online education,
- 1.3 Whereas the Indian version of online learning is being launched on an indigenous platform of learning, named as SWAYAM (Study Web of Active Learning by Young and Aspiring Minds),
- 1.4 Whereas there is a need to create synergies between the salient features of anytime-anywhere format of e-Learning and the traditional classroom-based chalk and talk method to develop a unique content delivery mechanism, which is responsive to learners' needs and ensures seamless transfer of knowledge across geographical boundaries,
- 1.5 Whereas there is a need to put in place a regulatory mechanism that would allow seamless connect between the online learning and the regular class room learning, Now therefore:
 - University Grants Commission in exercise of the powers conferred by clause (f) and (g) of sub-section (1) of Section 26 of the UGC Act 1956 (No. 3 of 1956), makes the following Regulations, namely;

2. Short title, Application and Commencement:

- 2.1 These Regulations shall be called the UGC (Credit Framework for online learning courses through SWAYAM) Regulation 2016.
- 2.2 These shall apply to all universities established or incorporated by or under a Central Act, a Frovincial Act, or a State/Union Territory Act and all institutions recognized by or affiliated to such Universities and all institutions deemed to be universities under Section 3 of the UGC Act, 1956.
- 2.3 These shall further apply to the transfer of credits of such students who are enrolled as regular/part-time students in any educational institution in India.
- 2.4 These shall come into force from the date of their publication in the official Gazette.

3. Definitions:

- 3.1 'Academic Council' is the body empowered to take decisions regarding all academic matters in an institution including the decision regarding permitting online learning courses through SWAYAM.
- 3.2 'Course' shall mean a paper which is taught for at least one semester as a part of a subject
- 3.3 'Four quadrant approach': the four Quadrant approach means e-learning system that has the following components:
 - Quadrant-I is e-Tutorial: that shall contain: Video and Audio Contentinan organised form, Animation, Simulations, Virtual Labs.
 - Quadrant-II is e-Content: that shall contain: PDF/e-Books/illustration, video demonstrations, documents and Interactive simulations wherever required.
 - Quadrant-III is Web Resources: that shall contain: Related Links, Open Content on Internet, Case Studies, An ecdotalin formation, Historical development of the subject, Articles
 - Quadrant-IV is Self-Assessment: that shall contain: MCQ, Problems, Quizzes, Assignments and solutions, Discussion forum topics and setting up the FAQ, Clarifications on general misconceptions.
- 3.4 'Host Institution' shall mean the institution duly recognised/approved by the regulating authority, to which the PI/SME offering the course belongs.

- 3.5 'Institution' shall mean any academic institution registered and functioning in India.
- 3.6 'MOOCs': Massive Open Online Courses (MOOCs) are such online courses which are developed as per the pedagogy stated herein; following the four quadrant approach and made available on the SWAYAM p latform of Government of India.
- 3.7 'MOOCs Guidelines' shall mean guidelines on online learning issued by the MHRD vide its orders dated 11th March 2016 and subsequent addendums issued by the MHRD.
- 3.8 'National MOOCs Coordinator' (NMC) is a Nation level agency designated as such by the Government, for the purpose of coordinating the production of the online courses and for overseeing their quality in a designated sector of learning.
- 3.9 'Parent Institution' shall mean the institution/university/college where the student is enrolled as a regular/parttime student.
- 'Principal Investigator (PI)': The PI shall be a Subject Matter Expert (SME) belonging to a reputed educational 3.10 institution, identified and entrusted with the task of developing and delivering MOOCs in a given area by the
- 3.11 'Sector' shall mean a particular level of learning such as high school, engineering/non-engineering diploma/degree/post-graduation.
- 3.12 'Subject' shall mean a discipline (eg Mathematics) taught in an educational institution consisting of specific courses, resulting in awarding of a certificate/diploma/degree.
- 3.13 'SWAYAM platform' is an IT platform developed and made functional by the Ministry of Human Resource Development of Government of India for the purpose of offering online learning courses on the MOOCs pattern.

4. Online learning courses:

- 4.1. The online learning courses shall be made available on the SWAYAM Platform by the PI identified by the National MOOCs Coordinator, through the Host Institution, as per the schedule finalised by him/her.
- 4.2. The SWAYAM shall notify to the Registrars of all the Institutions, on 1st June and 1st November every year, the list of the online learning Courses going to be offered in the forthcoming Semester.
- All the Institutions shall, within 4 weeks from the date of notification by SWAYAM, consider through their 4.3. Competent Authoritythe online learning courses being offered through the SWAYAM platform; and keeping in view their academic requirements, decide uponthe courses which it shall permit for credit transfer.
 - Provided that an Institution can only allow up to 20% of the total courses being offered in a particular program in a Semester through the online learning courses provided through SWAYAM platform.
- While making this decision, the Academic Council may, interalia, consider allowing online courses of 4.4.
 - a) There is non-availability of suitable teaching staff for running a course in the Institution or
 - b) The facilities for offering the elective papers (courses), sought for by the students are not on offer in the Institution, but are available on the SWAYAM platform.
- The courses offered on SWAYAM would supplement the teaching-learning process in the Institution.
- Every student, in the class of the institution, offering a particular paper (course) would be required to register for 4.5 the MOOCs for that course/paper.
- While allowing the online learning Courses offered by SWAYAM, it shall be ensured that the physical facilities 4.6 like Laboratories, computer facilities, library etc, essential for pursuing the courses shall be made available free and in adequate measure by the parent institution. 4.7
- The parent institution must designate a course coordinator/facilitator to guide the students throughout the course and to facilitate/conduct the Lab/Practical sessions/examinations.

Evaluation and Certification of MOOCs

- 5.1. The host institution and the PI shall be responsible for evaluating the students registered for the MOOCs course launched by him/her. 5.2.
- The evaluation should be based on predefined norms and parameters and shall be based on a comprehensive evaluation throughout the length and breadth of course based on specified instruments like discussions, forums, quizzes, assignments, sessional examinations and final examination.

175, 1.76

- 5.3. Whereas an online examination would be the preferred mode, the PI shall be authorised to decide on the mode of conducting the final examination. This shall be announced in the overview of the Course at the time of offering the course.
- 5.4. In case, apen and paper final examination is to be conducted, the same shall be offered through any college/school volunteering to conduct the same. The decision in this respect will be of the PI and the host institution.
- 5.5. After conduct of the examination and completion of the evaluation, the PI through the host institute on shall award marks/grade as per the evaluation scheme announced.
- 5.6. The final marks/grade shall be communicated to the students as well as the parent institution of the student, within 4 weeks from the date of completion of the final examination.
- 5.7. The parent Institution shall, incorporate the marks/grade obtained by the student, as communicated by the Host Institution through the PI of the SWAYAM course in the marks sheet of the student that counts for fin all award of the degree/diploma by the University with the proviso that the programs in which Lab/Practical Component is involved, the parent institution will evaluate the students for the practical/Lab component and acc ordingly incorporate these marks/grade in the overall marks/grade
- 5.8. A certificate regarding successful completion of the MOOCs course shall be signed by the PI and issued_through the Host Institution and sent to the Parent Institution.

6. Credit Mobility of MOOCs

- 6.1. The parent Institution shall give the equivalent credit weightage to the students for the credits earned through online learning courses through SWAYAM platform in the credit plan of the program.
- 6.2. No university shall refuse any student for credit mobility for the courses earned through MOOCs.

7. Amendment required in University Rules and Regulations for Seamless Integration of MOOCs

- 7.1 Every Institution, shall within 4 weeks from the date of issue of these Regulations, shall decide through their Competent Authority, the amendments required in their Ordinances, Rules, Regulations etc to incorporate provisions of these Regulation.
- 8. Transitory Measures
- 8.1 The UGC shall notify a Standing committee to resolve any issues that may arise in the implementation of these regulations during the transition period of three years.

Prof. JASPAL S. SANDHU, Secy. UGC [ADV1.-III/4/Exty./182 (113)]