

Academic Audit

(2018)



**Gurukula Kangri Vishwavidyalaya,
Haridwar**

(NAAC "A" Grade Accredited Deemed to be University u/s 3 of UGC Act 1956)

Report On
Academic Audit
Gurukula Kangri Vishwavidyalaya,
Haridwar



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**Academic Audit Committee
Gurukula Kangri Vishwavidyalaya**

Prof. P.P. Pathak
Dean Academic Audit

Prof. R.C. Sharma
(External Expert)
Head, Department of Environmental Science
HNB Garhwal University
Srinagar (Uttarakhand)

Prof. A.K. Jain
(External Expert)
Former Head, Department of Physics
Indian Institute of Technology Roorkee

Prof. Virendra Kumar Alankar
(External Expert)
Professor & Head
Department of Sanskrit
Punjab University, Chandigarh

Prof. R.K. Sharma
(External Expert)
Dean Faculty Affaires
Department of Computer Science & Engineering
Thapar Institute of Engineering & Technology
Patiala (Punjab)

The Report on the Academic Audit of Gurukula Kangri Vishwavidyalaya (GKV) Hardwar

A committee consisting of

1. Prof. Ramesh C. Sharma,
2. Prof. V. K. Alankar,
3. Prof. A. K. Jain, and
4. Prof. R. K. Sharma

visited GKV Hardwar from 25 April 2019 to 27 April 2019 for the purpose of Academic Audit (AU). A brief report of this committee is as below, please.

The committee visited following Academic Units.

Day 1: 25 April 2019 (FN)

Kanya Gurukula Campus, Dehradun

The committee visited KanyaGurukula Campus, Dehradun on 25 April 2019. This off-campus of GKV Hardwar is located in the capital of Uttarakhand. This campus offers 16 courses in all. Out of these 16 courses, 3 courses are offered at UG level, 8 courses are offered at PG level, and 5 courses are offered at PhD level. There are 14 regular faculty members in 5 academic units on the campus. The campus has a good infrastructure, and the efforts are on to renovate the old structure, and change the old equipment. The library in this campus has 23,633 books, and it is maintained reasonably. **The usage of these books, however, needs to be encouraged. The efforts on procuring the e-books and e-journals should also be increased.**

A good number of outreach programs have been organized on the campus. These, however, are not uniformly spread across all the academic units on the campus. Probably, there should be some activity or the other in all the departments. The contribution of Department of Computer Science towards these activities should also increase. The research scholars and faculty members of the campus should be exposed to the next level of research, for example, they should know what is self-cited Impact Factor and what is Impact Factor by a third party. Efforts should also be made to improve the intake of students across all the departments at this campus.

Day 1: 25 April 2019 (AN)

(i) Department of Sanskrit

Department of Sanskrit has two Professors and two Assistant Professors, one post of Professor is lying vacant. This department offers M.A., B.A., B.A. (Hons) and Ph.D. courses. Department is planning to start 5 certificate courses to promote Sanskrit. The department has two smart class rooms and a big hall/auditorium for seminars. Four students are registered for their Ph.D. in this

department. The department has published 8 papers in 2018. The faculty members have attended 3 International and 20 National Seminars/Conferences/Workshops and presented papers also. One Professor attended the 17th World Sanskrit Conference held in UBC, Vancouver, Canada. One Professor was honored by Paropkarini Sabha Ajmer.

The department runs Pre-Ph.D. course. Four seminars/workshops/panel discussions and 7 extension lectures were organized by the Department. The report presented by the Department had been very good.

The department has plans to start three new diploma courses to attract the students.

(ii) Department of Veda

The Department of Veda has been one of the traditional departments of the University. The Department runs the programmes of B.A. (Veda is one of the optional courses); M.A. and Ph.D. in Veda. The Department has basic facilities for conducting these programmes. A Vedic Museum is also maintained by the Department. The Department has three Professors. The Department publishes an International peer reviewed referred research journal “*Vedic Vag Jyoti*” enlisted in the UGC approved list. Four doctoral students have been produced during 2018. The faculty members have published three research papers along with a book during 2018. Four lectures have been delivered by the faculty at the various conferences. In addition to it, four special lectures have been delivered by the faculty members at different places. The faculty members have acted as expert members on many academic bodies.

(iii) Department of Hindi

This department has two Professors and one Assistant Professor. There is one guest faculty in the department. Department offers Hindi as a course at UG level and MA in Hindi. It also offers the PhD program in Hindi. The faculty members, we believe, should make efforts to increase the number of students in their department. They should be forthcoming to start new and attractive programmes in their domain.

(iv) Department of Philosophy

Department of Philosophy has one Professor, 2 recently recruited Assistant Professors and other Assistant Professors on contract. The meetings of departmental committees are conducted regularly in this department. The department offers BA, BA (Honors) and MA programs in Psychology. The strength of students in these courses, however, is a concern.

Seven PhD students are registered in the department and as per records four students from the department got the teaching positions in 2018, 2 in this University itself and 2 through Bihar Public Service Commissions.

(v) Shraddhanand Vedic ShodhSansthan

Shraddhanand Research Centre conducts Research on Vedas and Sanskrit Shastras such as Samhitas, Smritis, Darshanas, Aranyakas, Upanisads etc. The centre has only one faculty. Last year, i.e., in the year 2018, the centre has published one book on Vedas in 3 volumes. The report presented by the Research Centre has been very good. It is worth mentioning for this Sansthan that the lone Professor in this Sansthan has published 87 books.

Day 2: 26 April 2019 (FN)

(i) Faculty of Engineering and Technology

Faculty of Technology consists of Department of Electronics and Communication Engineering (DECE), Department of Mechanical Engineering (DME), Department of Electrical Engineering (DEE), Department of Computer Science Engineering (DCSE), and Department of Applied Sciences (DAS). There are 18 regular faculty members in this Faculty, out of these 12 faculty members are Ph.D. degree holder. Others are pursuing for the same.

Faculty members of DECE published 3 SCI papers in 2018. Eleven students out of 60 students of this department got placed in the last one year. Ten students of this department qualified for the GATE examination in last one year. Department established one research lab during the last one year.

Faculty members of DME published 5 SCI papers in last one year and also filed one patent. This department also plans to purchase ANSYS tool in the next year, and they have also planned to submit a proposal in PMKVY scheme.

DEE has purchased MATLAB for faculty and student research last year and they plan to conduct PSCAD workshop next year. The faculty members will also involve themselves to encourage the students for clearing the GATE examination.

DCSE has done a good number of outreach activities during last one year. The faculty members in this department published 1 SCI and 1 Scopus paper in last one year. The department has a good placement record. They have also planned to organize Big Data and AI related activities for the benefit of students for the year 2019. One FDP has also been planned, and the Department is expecting Rs. 25 lac grant from UGC under MODROB.

Department of Applied Sciences is extending a good support to other engineering departments. They have some good publications. This will be really good to see some interdisciplinary research in which the faculty members of DAS will do collaborative research with other departments on the campus.

This is a general observation about the academic units of this faculty that these should put in efforts to start Masters Courses in their domain. Efforts should also be made to go for NBA Accreditation of the UG Courses.

(ii) Department of Botany and Microbiology

The Department of Botany and Microbiology is one of the oldest departments of the University. It has been running the programmes of B.Sc. (Botany/Microbiology as one of the optionals); M.Sc. Microbiology, B.Sc. Industrial Microbiology and Ph.D. in Microbiology. The Department has good infrastructure in terms of classrooms, seminar hall, laboratories and research laboratories and Wi-fi facilities. The Department has also been maintaining the Department Library with more than 80 e-journals. It has considerable numbers of research equipments including ELISA Reader, HPLC, UV-Vis. Spectrometer, Fermenter, Millipore and Thermal Cycler. The Department has four Professors including one BSR Fellow, four Assistant Professors and two Adhoc Assistant Professor. The Department, has organized a workshop on “**Hand-on Training on Molecular and Microiological Techniques**” during 9-10 March 2018. The Department has also organized a National Conference on “**Microbial Inoculants for Agriculture and Environmental Sustainability**” during 28-30 September 2018. The faculty also participated in three National conferences and one workshop during 2018. The Department also conducted many public awareness programmes including World AIDS Day (December 01, 2018).

Six doctoral students have produced by the Department during 2018. A total of seven students have qualified GATE (03), ASRB-ICAR NET (01) CSIR NET JRF (01) and (TET (01) during 2018. Two sponsored research projects are being run at the Department. The Department has published 13 research papers in the peer reviewed reputed journals during 2018. The faculty members have good Google Scholar Citations, h-index and Z-10 Index. The Senior Faculty members have published three standard books published by International Publishers including the Springer-Nature. The Department has submitted six sequences of microbial strains to NCBI Data Base.

(iii) Department of Yogic Sciences

The Department of Yogic Sciences is one of the new emerging departments of the University. The Department runs the programmes of B.A. (yogic sciences as one of the optionals), M.A./M.Sc. and Ph.D. in Yogic Sciences. The Department has one Professor one Associate Professor and two Assistant Professors. The Department has organized ten-days training programme for Chinese participants during 2018. A National Continuing Medical Education Programme on yoga has also been organized during March 26-31, 2018. The Department has also organized a National Workshop on Research Methodology during 14-24, 2018. The Department has also organized Yoga Festival,

International Yoga Day and two-day Workshop on Mamroma Therapy during 2018. Four invited lectures were also organized at the Department. The faculty members have published seven research papers in peer reviewed referred journals during 2018. A senior faculty has received two Life Time Achievement Awards, one at Bangkok (Thailand) and other in Chengdu (China) in 2018. Another faculty also received a Yoga Shiromani Award from Aviral Yoga Peeth, Rishikesh on April 22, 2018. Four students have been working for their doctoral degree under various fellowships. The Department has achieved excellence in terms of getting 11 students qualified UGC NET including two UGC-JRF in 2018. The students of the Department are actively involved in various extension activities for promotion yoga.

(iv) Department of Physical Education and Sports

The Department of Physical Education and Sports is also one of the emerging Departments of the University. The Department has been conducting the programmes of B.P.Ed. and M.P.Ed. The Department has one Professor, one Assistant Professor, five Assistant Professors (Contractual) and two coaches. The Department has published five books along with three research papers during 2018. Three students have qualified UGC NET in 2018.. The Department has good achievement in 2018 in terms of getting two bronze medals in All India Inter University Wrestling Championship (77kg; 70 kg). the team of Drop Row Ball got third place in All India Drop Row Ball Championship in 2018. Five students have got good placements during 2018.

(v) Department of Pharmaceutical Sciences

This department is one of the good performing departments of the University as per the assessment of this committee. The department is able to attract a good number of students. As per the presentation, the faculty members were involved in publishing 5 books, 2 journal papers, and 2 international conference publications. They should, however, brainstorm to increase the quality of their publications.

Three students from this department have acquired the NET qualification and five students got the placement.

The students of the department excelled in sports by winning 2 bronze medals in All India University Championship. The department has also organized a good number of events in the year 2018. It was pleasure to note the faculty and students of the department were involved in the cleaning of the river Ganga. Some of the faculty members have adopted an interesting idea to increase the learning curve of the students. It was also nice to see that the digital board installed in this department was functioning.

The faculty members felt that the feedback given by the students should be shared with them.

(vi) Department of Computer Science

This department contributed 19 International Journal publications and 3 Conference publications during the year 2018. Faculty members have also been involved in reviewing the articles.

During the year 2018, seven students were awarded the PhD degree from this department, and 4 Ph.D. these have been submitted. The faculty members also participated in 7 workshops. The department also plans to start 5-year integrated BCA-MCA program from the year 2019.

It has been felt that the department should organize computer awareness programs for teaching and non-teaching staff of the University on a regular basis. The faculty members should also work on writing projects from different funding agencies.

Day 2: 26 April 2019 (AN)

(i) Department of Psychology

This department has 4 regular faculty members and 2 faculty members on contract basis. In comparison with other contemporary departments, this department is able to attract students. Sixty percent of the seats in UG are filled. However, Masters Course is a concern. The department is not able to attract students at Masters Level. This is nice to know that department published 25 papers in Journals in the year 2018. They should now focus on the quality of these publications. One student from the department qualified the JRF examination and 3 students were selected for the position of Assistant Professor in various Institutes.

The department should earnestly think of starting some new programs, for example, MA in Clinical Psychology, to attract more students.

(ii) Department of English

The Department of English is one of the oldest departments of the University. The Department runs the programmes of B.A. (English as one of the optionals), M.A. and Ph.D. in English. Canadian Studies has been one of the important components of postgraduate teaching and research programmes. The Department is conducting courses on Compulsory English and English Communication for all undergraduate students under CBCS system. The Department has sufficient infrastructure in terms of 05 faculty rooms, and one Departmental Library. The classrooms are equipped with smart boards. The major focus of the Department has been the Application of Classical Indian Aesthetic Theories to English Literature and Indian Knowledge Traditions in Translations. The Department has contributed to the Encyclopedia of Hinduism. The Department has initiated a project on Encyclopedia of *Mahabharata*. The

Department has three Professors and two Assistant Professors. The faculty members have published 21 research papers and attended six National Symposia and two International Symposia during 2018. They delivered five invited lectures during 2018. Faculty members have got recognition in terms of acting as President, Advisor, and members of many academic bodies and journals. Six students have qualified UGC-NET JRF during 2018. Six students have got good placements during 2018. More than 14 eminent speakers have visited the Department during 2018. The Department has organized two National Seminars, one Literature Festival, and Narrative in Literature during the year 2018. The Department has conducted 08 outreach and community service programmes during 2018. The Department has future plan to develop a computer language lab for the students.

(iii) Department of Physics

The Department of Physics is also one of the oldest departments of the University. It runs the programmes of B.Sc. (Physics as one of the optionals), M.Sc. and Ph.D. in Physics. The Department has good infrastructure in terms of UG/PG Labs (7), Computer Lab (01), Seminar Hall (01), Departmental Library (01), Faculty rooms (11), Store (01), Class Rooms (05), and three well equipped Labs (Semiconductor; Atmospheric Physics; Material Science). The Department has considerable major equipments including UV-VIS-NIR Spectrophotometer, Semi-conductor Characterization System, Differential Scanning Calorimeter and DC and RF Sputtering System, Vacuum Cryostat and Atmospheric Aerosol Meter. More than 450-e-journals are available through INFLIBNET in the Department.

The Department has two Professors, three Assistant Professors and three Adhoc Assistant Professor, one post each of Associate Professor and Assistant Professor is vacant. The Department is also active in on-going the externally funded research projects. Two research projects have been just completed in 2018 and one more is running sponsored by SERB, DST, Government of India. The Department has MoU with the Aryabhata Research Institute of Observational Sciences (ARIES), Nainital. However, the faculty has individual collaborations at the National and International levels. The Department has published 27 research papers with a total of 40.34 impact factor in 2018. The Department has produced 07 doctoral students during 2018. The research scholars are getting fellowships including UGC NET JRF (04) and DST Inspire (01). Five students have cracked GATE, 01 student has qualified UGC NET and another student has cleared USET.

The faculty members are expert members of various academic bodies. Four distinguished speakers including Prof. Jayant Narlekar have visited the Department during 2018. The Department is also active undertaking extension

activities. The Department has planned to establish a Nano Technology Centre along with the Planning to get UGC SAP and DST FIST programmes.

Day 3: 27 April 2019 (FN)

(i) Department of Chemistry

The Department of Chemistry is also one of the oldest departments of the University. It runs the programmes of B.Sc. (Chemistry as one of the electives), M.Sc. with specialization in Commercial Methods of Chemical Analysis (CMCA) and Ph.D. in Chemistry. The Department has one Professor and seven Assistant Professors. The faculty members have published 12 research papers during 2018. Three doctoral students have been produced by the Department during 2018. Five research scholars are getting fellowship including CSIR NET JRF (02) and RGNF (03). Two guest speakers also visited the Department during 2018. A total of sixteen conferences have been attended by the faculty members during 2018.

(ii) Department of Mathematics and Statistics

The Department of Mathematics and Statistics is one of the oldest departments of the University. It runs the programmes of B.Sc. (Maths as one of the electives), M.Sc. and Ph.D. in Mathematics. At the moment, the Department has four Assistant Professors only. The Professor has already superannuated. Three students have been enrolled for Ph.D. during 2018. Faculty members have published seven research papers and two book chapters during 2018. Six National and 02 International Conferences have been attended by the faculty in 2018.

There was one invited talk delivered by a Guest Speaker on 03-01-2018. Two students have qualified NET JRF during 2018. The research scholars are getting fellowship including CSIR NET JRF (05) and DST inspire Fellowship (01).

(iii) Department of Zoology and Environment Sciences

The Department is one of the oldest departments of the University. The Department has been supported by the programmes of UGC-SAP and DST-FIST on its academic performance. The Department has been running B.Sc. (Zoology is one of the optionals), M.Sc. and Ph.D. in Environmental Sciences. The Department has recently introduced a programme of M.Sc. Environmental Technology in 2018. The Department has good infrastructure in terms of classrooms (05), Seminar Hall (02), Committee Room (01), Instrumentation Room (02), Laboratories (02), Research Labs (08), Library (01) and Museum (01). The Department has procured considerable research equipment including AAS, Chromatograph with Detector and UV-VIS Spectro photometer. The Department has three Professors and five Assistant Professors. Eleven Doctoral students have been produced during 2018. Two students have qualified UGC

NET in 2018. A total of 17 doctoral students are getting various fellowships including BSR Fellowship (05), Rajiv Gandhi National Fellowship (05), DST Inspire Fellowship (02) and Research Project Fellows (03) during 2018. Two research scholars have also presented their research papers at the International Conferences in Switzerland and Canada. Two research scholars got young scientist awards during the National Symposia during 2018. Eight students have got good placements in different organizations.

The Department has initiated an innovative programme on the studies of Molecular Phylogeny and Phylogeographic differentiation among certain species of birds and butterflies along the Himalayan gradients. The faculty members have published more than 38 research papers in the peer reviewed referred journals during 2018. The faculty members have good Google Scholar Citations, h-Index and i10 Index. Faculty members have attended and presented their papers at three international and seven National Conferences. Senior faculty members have also served as Chairperson or resource persons in seven National Seminars. The Department has been running two major research projects sponsored by DST, Government of India. However, one major project sponsored by GBIHED KOSI-Katarmal, Almora has been completed in August 2018. The faculty members have received eleven distinctions in terms of awards, fellows, members and President of Academic bodies. Two Professors of the Department have been nominated by the Government of India as members of the Committee for Protection of Ganga at Hardwar.

The Department has also undertaken many extension programmes on promotion of public awareness on various environmental issues during 2018. The Department has also organized a National Workshop on “**Research Methodology in Sciences and Technology**” during 4-13 October 2018. Five eminent speakers were also invited to deliver lectures and visit the Department during 2018.

The Department has proposed to introduce two programmes (P.G. Diploma in Environmental Health and Industrial Safety; P.G. Diploma in Disaster Management) under future plans.

(iv) Department of Management Studies

The Faculty of Management Studies is one of the emerging faculty of the University. It runs the programmes of BBA, MBA, MBA (BE), MBA (BF) and Ph.D. in Business Management. The Faculty has also proposed a new programme of MBA (TM). The faculty has integrated Vedic Management and Community Services in its curriculum. The faculty has been conducting outreach programmes regularly in addition to providing practical exposure to the students of business management. The Faculty has two Professors, and eight Assistant Professors. The department has produced three doctoral students

during 2018. Three students are waiting for their Viva voce examination on their doctoral theses. The faculty has organized a National Conference on Implication & Management on Literature, Education, Social Sciences and Cultural Issues on September 30, 2018. The faculty has organized a workshop on Introduction to R and Statistical Analysis using R-Studio during 23-25 November, 2018.

The faculty members have published 09 research papers in peer reviewed journals and 03 chapters in the books. The Faculty of Management studies has been publishing a research journal "Gurukul: Business Review (GBR)" regularly and has already published its volume 09 in 2018.

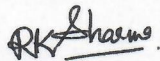
The faculty members have delivered invited lectures (12) at various universities. The faculty members have attended 14 conferences. The Faculty of Management has planned to have a Corporate Professor Chair to be sponsored by Punjab National Bank and to organize a workshop on Finance and Marketing for 2019.

Day 3: 27 April 2019 (AN)

(i) KanyaGurukula Campus, Haridwar

The Kanya Gurukul Campus was established in 1993 in Hardwar away from the main campus, The campus has six departments of Arts and Humanities (Sanskrit, Philosophy, Ancient History, Culture and Archaeology; Hindi, English and Psychology) and five departments of Sciences (Physics, Chemistry, Mathematics, Microbiology and Environmental Sciences) M.A./M.Sc. and Ph.D. programmes in these departments are offered at this campus. M.Sc. Environmental Technology has also been introduced during 2018. The campus has workable infrastructure and facilities in terms of Science block, Arts Block, Central Library, and a multiple purpose hall. Some indoor and outdoor sports facilities are also available. The campus is equipped with Wi-Fi connectivity. Basic research facilities are also available in each department. There are eight Professors 14 Assistant Professor and 08 guest faculty (Assistant Professor) at the campus. The campus has produced 15 doctoral students during 2018. A total of 73 research papers have been published by the faculty members of the campus during 2018. The Department of Environmental Sciences and the Department of Mathematics have organized one workshop each during 2018. Other departments were also engaged in few co-curricular activities during 2018. Three MoUs have been signed with PCRI, BHEL, Hardwar, HESCO, Dehradun and GBPHIED, Kosi-Katarmal during 2018.

Interestingly most of the toppers in various disciplines were from this campus. Eight girl students out of the 11 subjects of the campus have topped the University during 2018. Eight students have qualified UGC NET including JRF. 20 students are getting fellowships (03), DST Inspire (01), Dr. DS Kothari PDF (01), RGNF (06), ASRB NET (05), USET (02) and GRE (02).



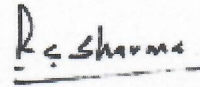
(Prof RK Sharma)



(Prof AK Jain)



(Prof VK Alankar)



(Prof RC Sharma)