

# Report On Academic Audit Gurukula Kangri (DU), Haridwar



**2022-2023**

**Academic Audit Committee  
Gurukula Kangri (DU)**

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Former Vice  
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**Date of Visit: 30/04/2024 & 01/05/2024**

## Preamble

Gurukula Kangri (Deemed to be University) was founded on March 4, 1902 by Swami Shraddhanand ji with the sole aim to revive the ancient Indian Gurukula system of education, on the bank of river Ganges at Haridwar. This institution was established with the objective of imparting education in the areas of Vedic literature, Indian philosophy, Indian culture, modern sciences and research. As part of its policies for the upliftment of women in the country, Kanya Gurukula Campus, Dehradun was established in 1922 by Acharya Ramdev ji as a second campus of women's education. It was given the status of Deemed to be University in 1962 by University Grants Commission with the mandate that it would be fully funded by the UGC. In order to give real shape to the dreams of Swami Shraddhanand ji, Kanya Gurukula Campus, Hardwar was established in 1993.

The university has 08 faculties of studies with 23 teaching departments including the Departments of Hindi, English, Psychology, Veda, Sanskrit, Philosophy, Botany & Microbiology, Chemistry, Mathematics & Statistics, Physics, Zoology & Environmental Sciences, Management Studies, Physical Education & Sports, Yogic Sciences, Pharmaceutical Sciences, Ancient Indian History, Culture and Archaeology, Computer Science, Electronics and Communication Engineering, Mechanical Engineering, Computer Science and Engineering, Electrical Engineering, Applied Science, Jyotirvigyan evam Karmakand.



## **1. Detailed Academic Audit Report**

The committee visited the following Departments:

### **Faculty of Oriental Studies**

#### **Department of Sanskrit**

This department offers B.A. Honors (Vidyalankar), M.A. and PhD programmes in Sanskrit. Department also offers an optional Sanskrit course at UG level and a compulsory course on Ancient Indian Tradition of Knowledge to all UG programmes. It has adequate physical facilities to run these offered programmes. The Department has four permanent teachers and five NET/JRF qualified research scholars. The Department has organized six workshops and programmes during the academic year and three extension activities wherein the importance of learning Sanskrit was communicated to graduate and postgraduate students.

#### **Department of Veda**

The Department of Veda offers (i) B.A. Honors in Veda (Vedalankar) (ii) M.A. in Veda (iii) Ph.D. in Veda and a Diploma in Vedic Karmakand. The Department publishes an international peer reviewed referred research journal "Vedic Vag Jyoti" enlisted in the UGC-CARE list. The faculty members published 13 research papers and participated in one workshop in 2022-23. Furthermore, three students qualified the NET exam in the aforementioned period. Department of Veda is doing well but less number of students in Master's Degree is a concern. Department should initiate to explore research projects also.

#### **Department of Philosophy**

The Department of Philosophy offers Philosophy as a subject at the UG level, M.A. in Philosophy at the PG level, PhD in Philosophy at the doctorate level. The faculty members published four papers in UGC CARE listed journals, published one book, attended nine conferences/seminars and organized six lectures. Three research scholars were awarded PhD degree and four students qualified NET/JRF exams during this year. The faculty participated in thirteen workshops/refresher courses in 2022-23.

The Department has a good library for preservation of Vedic philosophy in teaching and research. The Department is currently experiencing a paucity of students at the M.A. level.

#### **Department of Ancient Indian History, Culture and Archaeology**

The Department of Ancient Indian History, Culture and Archaeology has a distinction of being



one of the few in the country to offer a programme on Archaeology and Museology at the undergraduate and postgraduate levels. The Department is known for its Archaeological Museum having a very rich collection of antiquities from proto-History to Modern age. The foundation and advanced level courses are offered in Indian history, culture and archaeology. The department employs various mechanisms for the further generation of knowledge such as field explorations and awareness of cultural heritage.

The Department conducts archaeological explorations regularly and has provided information on the excellent picture of upper Gangetic plain archaeology, and ancient use of landscape and settlement history of mankind. The Department has reasonably good infrastructure and facilities in terms of classrooms, seminar hall, meeting room, faculty rooms and a computer lab. Department has one of the best libraries which contains more than 4500 books including renowned journals of primary sources.

The faculty of the Department published 17 papers in UGC Care Listed journals. The faculty presented 03 papers in conferences/seminar.

### **Department of Jyotirvigyan and Vaidik Karmkand**

The department offers M.A. and PhD programmes in Jyotirvigyan and Vaidik Karmkand. The faculty published three research papers, attended two workshops, presented papers in three seminars and delivered three invited lectures in 2022-23.

### **Faculty of Humanities**

#### **Department of Psychology**

Psychology is an important subject which has wide applications. The major thrust area in the Department is Clinical Psychology and Organizational Psychology. The Department is well equipped with psychological tests and experimental apparatus. The department also has a rich departmental library.

The M.A. Psychology Course includes the latest trends in Psychology, with emphasis on practical training and field work. The courses lay special emphasis on the acquisition of knowledge and skills through theoretical understanding and its practical implications. A large number of our Master's and Ph.D students after completing their degrees are employed by different organizations, institutes and hospitals. The department organized two training programmes and signed one MoU with Uttarakhand Sanskrit University.

The faculty members of the Department published nine research papers, two books, six book chapters, participated in two seminars and presented papers in six conferences in 2022-23.



## **Department of English**

The Department of English is one of the oldest departments of the University. The department focuses on Indian aesthetics and Indian Knowledge Traditions. During 2022-23, the faculty members of the department published three research papers, one book and one book chapter. The department has experienced faculty working on Indian poetic and Indian literature. The department is conducting various activities in diverse context. The Department of English has a lot of potential to contribute in academic growth of the University. It can offer various Certificate Courses/ Diploma Programmes in Foreign Languages to attract the students.

## **Department of Hindi**

Hindi department offers Hindi as a subject at UG level and M.A. and PhD programme in Hindi and a PG Diploma in Hindi Journalism. Two research papers and one book were published by the faculty in the academic year 2022-23. Alumni of the department are working in various Media Houses, Freelance Journalism, MOJO (Smartphone based Journalism). A studio for journalism programme needs to be established. There is a serious concern of the department towards lack of faculty positions and infrastructure.

## **Faculty of Life Science**

### **Department of Botany and Microbiology**

The Department of Botany is running the programmes of B.Sc. in Botany/Industrial Microbiology, M.Sc. Microbiology, and Ph.D. in Botany/Microbiology. The department has good infrastructure in terms of classrooms, seminar hall, research laboratories and Wi-fi facilities. It has considerable number of research equipments including ELISA Reader, HPLC, UV-Vis. Spectrometer, Fermenter, Millipore and Thermal Cycler etc.

The faculty members published three books, thirty-four research papers and contributed sixteen chapters to books. Five research projects are going on in the department. The department conducted three seminars and signed one MoU in 2022-23. The faculty members are also involved in training FIPs and acted as resource persons in twelve seminars and conferences in 2022-23. Prof. R.C. Dubey was conferred with Lifetime Microbiologist Devotion Award. There are 100% placements of PG students.

### **Department of Zoology and Environment Sciences**

The department offers courses in Zoology and Environmental Science at the UG level and Environmental Science at the PG and PhD level. The department also offers PG Diploma in Industrial, Health, Safety and Environment.



The department has U.G., P.G. and Research block, Air, Water and Soil analysis laboratories for P.G. and research students, Smart classrooms, Departmental library, Computer lab, Seminar halls, Meeting Hall. The department have well maintained Zoology Museum, well established Bio-compost unit, Weather forecast station, Greenhouse, Animal house, Lush and green medicinal plants garden.

The Department of Zoology and Environmental Science published 38 research papers, 17 book chapters, 03 books in 2022-23. The faculty members of the department presented 22 research papers in various national and international seminar/conferences and delivered 05 invited talks. Currently 5 research projects are running in the department covering various zoological and environmental problems. The department have organized 05 events as Himalayan Day, 2022, workshop on Science Communication & Research Methodology, Conference on "Vedic Microbiology vs Modern Biotechnology, Conference on "Knowledge, Cultural Traditions & Practices of India and Workshop on Biodegradable Solid Waste Management and Vermi Farming for Sustainable Environment.

## **Faculty of Science**

### **Department of Mathematics and Statistics**

The Department of Mathematics is offering Mathematics as a course to B.Sc. students, M.Sc. and PhD in Mathematics. The Department is known for taking an inter-disciplinary approach towards various mathematical topics. Hence, subjects such as Operations Research, Graph Theory, Soft Computing, Wavelets, Cryptography, Network Security etc. are taught to students at various levels. The Department is equipped with basic facilities such as a seminar hall, computer lab, departmental library. The Department also has adequate Wi-Fi facilities for teachers and students. The faculty of the Department published 08 papers in 2022-23. The Department organized 1 induction programme for students in the aforementioned year.

### **Department of Physics**

The Department of Physics is offering Physics as a course to B.Sc students and a PhD degree in Physics. Thirteen research papers and one book chapter were published by the permanent faculty members of the department in the academic year 2022-23. There is also one research project going on in the Department under the aegis of UCOST. The department carries out extension activities for the people of Haridwar under the aegis of Inter-University Centre for Astronomy Research Development.

The student strength is good at the UG level, however there is inadequate student strength at the PG level. The department has a very reasonable infrastructure and the laboratory facilities.

### **Department of Chemistry**



The department is running chemistry as a subject in UG and M.Sc. in Commercial Methods in Chemical Analysis (CMCS) and PhD in chemistry. CMCS is quite in demand and students after going through the programme got placed in various reputed industries and organisations. The faculty published thirty-eight research papers, four book chapters and presented papers in twelve conferences. The department is known for its extension activities and organized a national seminar. The faculty members acted as resource persons and delivered lectures. The department has an excellent strength of 105 students pursuing their masters.

### **Department of Computer Science**

The Department offers Computer Science as one subject at B.Sc. level, M.C.A., and PhD programmes. There are 7 faculty members in this Department who are actively involved in its development. The faculty of the Department published 6 papers in SCOPUS indexed journals. The faculty of the Department also published 04 papers in conference proceedings, participated in 06 conferences/workshops and published 01 book. The Department has 1 ongoing research project funded by UCOST Dehradun. The Department also organized 01 national conference in 2022-23.

### **Faculty of Management Studies**

#### **Department of Management Studies**

The Department offers Bachelor of Business Administration (B.B.A.), Master of Business Administration (M.B.A.), Master of Business Administration, Master of Business Administration (Business Economics) (M.B.A. (BE)) and Ph.D. programmes. The department has adequate student strength in various programmes. There are sixteen research scholars pursuing their PhD in the department.

There are two professors and six ad-hoc assistant professors in the Department. The Department has excellent infrastructural facilities. Moreover, computers and software are available. The Committee feels that nodes must be provided so that the students of the Department maybe able to access the desired books of the library through that mode.

There have been enough standard books with the Department along with the subscription of standard national and international journals. The Department publishes newsletter, Manthan on a biannual basis and 22 volumes have been published so far. Similarly, Gurukul Business Review was also published by the Department on an annual basis and 19 volumes have been published so far. The faculty members have attended 9 national and 2 international seminars which need to be augmented significantly. There is a requirement for establishing collaborations with industry so that the students maybe able to do internship as a part of their qualification for acquiring skills to get good placements after getting the postgraduate degree. There is a need for the execution of the MoU signed in the previous year so that the holistic development of the students may come to fruition.



There were fifteen online seminars/guest lectures organized by the Department in 2022-23. The Department offers professional degrees at an affordable cost and attracts students from different states.

### **Faculty of Engineering and Technology**

Faculty of Engineering and Technology (FET) offers 4 B.Tech. programmes such as B.Tech. (Computer Science & Engineering), B.Tech. (Electronics and Communication Engineering), B.Tech. (Electrical Engineering), and B.Tech. (Mechanical Engineering). There are four Departments for the Engineering Disciplines and one Department of Applied Sciences.

In the academic year 2022-23, the faculty members published 38 research papers in prestigious journals and 7 books/chapters. The faculty published 15 patents. The FET has the local chapter of NPTEL and is actively involved in popularizing the use of MOOCs as a tool of learning in the university. The FET has also taken strides towards NBA accreditation. The faculty should endeavour to start PG and Diploma programmes also since it has only been focusing on its UG programmes.

### **Department of Electronics and Communication Engineering**

Here, one research project has been awarded by DRDO to Dr Tanuj Garg on the research project, "Beams Scanning Rate Enhancement in Leaky Wave Antenna at X-Ku at a Fixed Frequency". The duration of the project is 2.5 years and it started during the year 2021-22.

The Department has published 16 research papers in SCOPUS indexed journals and 2 patents. 14 students qualified GATE under the capable guidance given by the faculty members of the Department. 21 students have been able to get placements in different organisations. The Committee is of the view that more collaborations and MoUs have to be finalized with reputed concerns so that the students may be able to get hands-on experience for getting good placements after getting the degrees. Seven students are doing research under the faculty members in the Department. There is a proper record of the meetings of RDC, BoS maintained by the Department. Therefore the progress of the students is properly monitored.

### **Department of Mechanical Engineering**

There are 3 regular faculty members in the Department and 5 Ad-Hoc faculty members in the Department. Nine research papers were published in UGC CARE, SCOPUS, SCI indexed journals. The Department also published 2 patents and 1 book chapter. The Department organized 2 industrial visits, 7 expert talks in 2022-23. 7 students qualified GATE in 2022-23. Several extension activities have been completed by the Department.

### **Department of Computer Science and Engineering**

The total strength of the regular faculty of this Department is 4 teachers. There is 1 research project sanctioned to Prof Mayank Aggarwal by UCOST, Dehradun on 13<sup>th</sup> March, 2023.



There are 7 research papers to the credit of this Department which got published in reputed international journals. This Department has been able to sign MoU with IBM for starting industry-oriented training programme. There has been regular RDC and BoS meetings during the entire session. Guest lectures were also conducted for the benefit of the students. 12 students have been able to qualify GATE. There has been a collaboration with industry and more programmes need to be undertaken by the Department during the coming sessions.

There has been a proper record keeping of the patents granted to the Department which establishes the academic credentials and the research work been undertaken by the faculty members who are limited in number keeping in mind the strength of the students.

### **Department of Applied Science**

The Department was established in the year 2000 and 5 research papers, 2 conference proceedings and 1 book chapter have been published by the faculty members during the session under consideration. 2 research projects of which 1 sanctioned by USERC for a total cost of 3 lakhs 88 thousand to Dr Lokesh Kumar Joshi and the other was sanctioned by UCOST to Dr Ajay Kumar for the total cost of 3 lakhs 50 thousand.

### **Department of Electrical Engineering**

The Department has 1 regular faculty and 6 guest faculty members. The faculty attended 16 FDP/Workshops. The Department organized, a one week induction programme and 4 workshops for students. Three papers have been published in SCOPUS indexed journals. Furthermore, 2 patents have also been published in 2022-23. The Department has signed MoUs with other reputed organisations and institutions. Seven students qualified the GATE exam and twenty two students were placed in various companies and organisations in 2022-23.

### **Faculty of Medical Science and Health**

#### **Department of Pharmaceutical Sciences**

The department is one of the emerging departments of the university. The department is running D.Pharm, B.Pharm, M.Pharm and PhD programmes. The faculty members published eighteen research papers, five book chapters, seven books and attended five seminars in 2022-23. Three patents were awarded to the faculty members in the aforementioned year. The faculty carried out consultancy work and two MoUs were signed in 2022-23. Mr Ashwini Kumar, a faculty member of the department was conferred with 'Pharma Recognition Award' and 'Young Scientist Award' in 2022-23. The students of the department were placed in various pharmaceutical companies and industries.



## **Faculty of Yoga and Physical Education**

### **Department of Physical Education and Sports**

The Department of Physical Education and Sports is running various programmes: BPES, BA, B.P.Ed., M.P.Ed. and Ph.D. The faculty members of the department presented fifteen papers in National/International seminars. The department conducted various extracurricular and extension activities in 2022-23.

The Department has reasonably good infrastructure in terms of one 400 m standard track, 14 grounds/courts for various sports, six class rooms, four labs, one departmental library and faculty rooms. The Department also has good strength of students studying at the UG, PG and PhD levels.

### **Department of Yogic Sciences**

The Department of Yogic Sciences is known for its extra-curricular activities by providing counselling facilities, organizing Yoga camps, Yoga competitions. The department has also organized several workshops and academic conferences. The department has good infrastructure, equipment and research labs. The faculty presented seven papers in national conferences and organized four national conferences/seminars.

### **Kanya Gurukul Campus Dehradun**

The Kanya Gurukula Campus, Dehradun or KGC, Dehradun is running 11 programmes such as Certificate Course in Yogic Science, B.A., B.A.(Hons) Sanskrit, M.A. (Sanskrit, Hindi, English, AIHCA, Yogic Science, Music (Vocal/Sitar)), M.C.A. and Diploma in Yogic Science. There are 12 permanent faculty members, 9 ad-hoc and 5 guest faculty in the campus. 40 papers were published by the faculty members of the campus in various UGC CARE listed journals, 36 papers were presented in conferences and seminars and 09 books chapters were published in 2022-23. One MoU was signed by the Campus. The Campus strives to pursue holistic development of its students through the daily performance of Havan. Furthermore, the campus has also introduced Masters level programmes in Music and Yoga. Three awards were received by teachers in 2022-23.



## Kanya Gurukul Campus Haridwar

The Kanya Gurukul Campus, Haridwar is a separate campus in the city of Haridwar, for women education. It has various departments across several academic disciplines. Several UG and PG programmes are being run in the campus.

The Department of Psychology of KGC Haridwar published 3 papers in UGC Care Listed journals, presented papers in 4 conferences and conducted 6 activities in 2022-23. The Department of Psychology has 2 faculty members.

The Department of Hindi of KGC Haridwar has 3 faculty members. The Department has conducted 24 activities in 2022-23 which is very creditable.

The Department of Ancient Indian History, Culture and Archaeology has 1 regular faculty member and 1 Ad-Hoc faculty. The faculty of the Department published 4 research papers in 2022-23. The Department offers innovative courses related to archaeology, epigraphy, numismatics etc.

The Department of English of KGC, Haridwar has 2 regular faculty members. The Department conducted 13 activities and organized 6 guest lectures in 2022-23. The Department maintains excellent record of its RDC, DRC, BoS meetings and these meetings are held regularly. Nine research papers were published in various journals by the faculty.

The Department of Management, KGC, Haridwar has 02 faculty members. The faculty published 08 papers in various international/national journals, 02 book chapters, The faculty presented 13 papers in international/national conferences.

The Department of Environment Science has 2 regular faculty members. The Department conducted 4 activities in the academic year 2022-23. The faculty published 12 research papers and presented papers in 4 conferences in 2022-23. The Department is well equipped with labs to analyse air, water and soil, Air Samplers, TDS Meter, DO Meter, Flame Photometer etc.

There are two faculty members in Department of Microbiology of KGC Haridwar. The faculty published 05 papers, presented 08 papers and published 01 book chapter in 2022-23. The Department also organized 01 webinar and 01 conference in 2022-23. Two students from the



Department qualified CSIR NET exam.

The Department of Physics of KGC Haridwar has 1 faculty member. The Department conducted 4 activities in 2022-23. The faculty member of the Department presented 10 papers in the aforementioned academic year. The Department has 101 students in B.Sc. and 27 students in M.Sc.

The Department of Mathematics of KGC Haridwar has 3 faculty members. The Department has a good strength of students at the undergraduate and postgraduate level. The Department held 6 activities in 2022-23. The faculty members of the Department published 10 papers in SCOPUS and Web of Science indexed journals and 3 chapters in books in 2022-23. 8 students from the Department were placed in various companies in 2022-23. The Department offers various courses on Industrial Mathematics and Applied Mathematics which improve the job prospects of the students. Furthermore, the Department also made efforts in improving the programming skills of the students.

The Department of Chemistry, KGC Haridwar has 3 regular faculty members. The Department conducted 3 activities in 2022-23 among which one was a Parent-Teacher meeting. There is one research project sponsored by UCOST to Dr Abha Shukla. The faculty of the Department published 8 papers in SCOPUS indexed and Web of Science indexed journals.

#### **General Observations:**

1. The University should work on attracting the teaching staff at middle level.
2. The University may consider quality publications as a requirement for the award of PhD degree.
3. The University may consider some kind of incentive for quality publications.
4. The University may consider starting few co-curricular activities for students under various society activities (such as Paryavaran Welfare Society, Fine Arts and Painting Society, Computing Society, Microsoft Chapter, etc.) at faculty level. This will help in developing interdisciplinary approach amongst students.
5. The administration may like to include the h-index of the Departments, and also the h-index of University in various presentations.
6. The alumni relations cell may be strengthened by including Department Coordinators. The Departments in turn may have their own Alumni Association.
7. The Departments should initiate some kind of remedial classes for slow learners.
8. The publications by Gurukul Kangri faculty in the journals/magazines published by



- the University should be limited.
9. The Departments which are affected from paucity of the students in their Master Programmes should make serious efforts to attract the prospective students.
  10. The Departments should explore the possibility of consultancy projects.
  11. The Departments should follow academic calendar for different departmental activities
  12. Students feedback and analysis of the feedback is required.
  13. Flexibility in the curriculum as per NEP 2020.
  14. Institutional Fellowship may be provided for meritorious PhD scholars.
  15. MoUs between the University and Industry or Scientific Organisations should be signed.

#### **Recommendations:**

- (1) Central Instrument Facility should be established in the University. Suitable manpower to maintain the proper functioning of the instruments should be appointed.
- (2) The University needs a language lab to promote communication skills.
- (3) Looking at the power supply problems, the Committee suggested the establishment of a Central Voltage Control Facility.
- (4) Job oriented courses and programmes should be started by the University. Courses in Data Science or AI should be started especially for Humanities students.
- (5) The Departments of Botany and Zoology should start Master's programmes in Botany and Zoology.
- (6) Job oriented courses/programmes should be started by the University.
- (7) Departments of Botany and Zoology should be encouraged to initiate Master's programmes in Botany and Zoology.
- (8) Teaching resources should be shared amongst the different campuses of the University.

#### **Strength of the University**

- (1) The University runs certain unique courses like Archaeology and Museology, Vedic Culture, Jyotishvigyan evam Karmkand.
- (2) The University encourages PG students to undertake minor research projects.
- (3) Certain departments have exhibited 100 percent placement of their students such as Chemistry, Microbiology.



- (4) Certain departments propose to start innovative programmes like Diploma in Hindu Studies, Diploma in Hindu Philosophy, Ethnopharmacology.
- (5) Certain departments have established collaboration with apex institutes of India like ASI.
- (6) Many departments have their own libraries. The Department of History is proud of having a rich departmental library in Indology.
- (7) Archaeological Museum is a proud possession of the University.

#### Weaknesses of the University

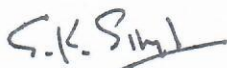
- (1) The University should take special care to recruit teachers as per U.G.C rules.
- (2) The University should feel concerned about timely promotion of the teachers.
- (3) The University should make suitable efforts to generate and distribute funds for proper functioning of the teaching departments.

Signatures

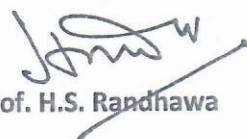
01/05/2024



Prof. S.V.S. Rana



Prof. S.K. Singh



Prof. H.S. Randhawa