

Report On  
Academic Audit  
Gurukula Kangri (DU) Haridwar



2023-2024

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Academic Audit Committee  
Gurukula Kangri (DU) Haridwar



Prof. Navneet



Prof. L. P. Purohit

Prof. Heman Pathak



Prof. Seema Sharma



Dr. Tanuj Garg

Dates of Visit: 25/01/2025 & 27/01/2025

## Preamble

Gurukula Kangri (Deemed to be University) was founded on March 4, 1902 by Swami Shraddhanandaji with the objective of imparting education in the areas of vedic literature, Indian philosophy, Indian culture, modern sciences and research. Kanya Gurukula Campus, Dehradun was established in 1922 as a second campus of women's education. It was given the status of Deemed to be University in 1962 by University Grant Commission with funded by the UGC, Govt of India.

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 and Vedic Karmakand.

## **Detailed Academic Audit Report**

The committee visited the following departments:

### **Faculty of Oriental Studies**

#### **Department of Sanskrit**

This department offers B.A. Honours (Vidyalankar), M.A. and Ph.D 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 NET/JRF qualified research scholars. The faculty members has published six research papers. The Department has organized six workshops/programmes and two 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 six research papers, presented eight papers in conferences / seminars and participated in one seminar.

#### **Department of Philosophy**

The Department of Philosophy at Gurukula Kangri (Deemed to be University), Haridwar offers B.A. (Honours), M.A. and Ph.D. courses. UG-level courses are aligned with the framework and objectives of NEP 2020, promoting holistic and multidisciplinary education. During the year, faculty members published three research papers and presented 10 papers in conferences and seminars. Faculty members completed an 8-day NEP 2020 Orientation & Sensitization Program. One faculty member has been awarded for best research paper presentation in a technical session of an international conference sponsored by Ministry of Culture and Education, Govt. of India. A faculty training program on teaching and assessment methods under NEP 2020 was also organized.



Key academic activities included four special lectures, such as the periodic lecture commemorating the 200th birth anniversary of Maharshi Dayanand Saraswati, sponsored by ICPR, Ministry of Education, Govt. of India. The department hosted two departmental and one international philosophical discussion programs and celebrated World Philosophy Day in 2023. Two JRFs, one NET, one GATE (AIR – 4<sup>th</sup> in Philosophy) and three SRFs qualified in Philosophy. Students excelled in extracurricular, winning nine medals in various sports championships. Additionally, an external activity focused on reviving Indian cultural traditions was organized.

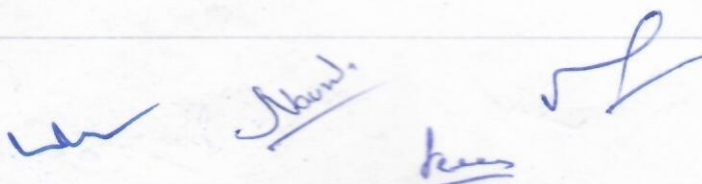
### **Department of Ancient Indian History, Culture and Archaeology**

The Department of Ancient Indian History, Culture, and Archaeology is an interdisciplinary department that focuses on the study of ancient India's history, culture, and archaeology. Department provides various facilities to develop critical thinking and analytical skills in students. Every academic session we organize education excursion for students i.e. visit monuments, Archaeological sites and Various Museums. Department also facilitate students with a comprehensive understanding of ancient India's rich cultural heritage and prepares them for careers in academia, research, and cultural resource management.

Department has biggest museum in Utrakhand. It has antiquity from Chalcolithic period to modern age. This is laboratory for students to understanding ceramic assemblages, epigraphy, paleography, numismatic, painting etc. In terms of ICT-equipped classrooms, a seminar hall, research scholar rooms, faculty rooms, and computer rooms. The Department's infrastructure and facilities are comparatively good. With over 4600 reference, textbook, and research journal volumes, the department has one of the best libraries. The faculties had published nine papers. Six papers were presented by the faculty at national and international conferences and seminars.

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

The department offers M.A. and Ph.D. programmes in Jyotirvigyan and Vedic Karmkand. The faculty published one research paper and attended four faculty development programme in 2023-24.



## **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. Department also provides counselling services for university students as well as in the Police line for the family disputes.

The M.A. Psychology course includes the latest trends in Psychology, with emphasis on practical training and field work. The courses lay special emphasis in the acquisition of knowledge and skills through theoretical understanding and its practical implications. A large number of Master's and Ph.D students of the department after completing their degrees are employed by different organizations, institutes and hospitals. The faculty members of the Department published 13 research papers, 2 books, and 9 book chapters, 10 papers presented / participated in conferences and seminar in year 2023-24

### **Department of English**

The Department of English is one of the oldest department of the University. The Department focuses on Indian aesthetics and Indian Knowledge Traditions. During 2023-24 the faculty members of the Department published seven research papers, two books and ten book chapters. 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 English Language to attract the students. The Department has been successfully running Ph.D. Programmes and attracting students from various prestigious Universities.

### **Department of Hindi**

Hindi department offers Hindi as a subject at UG level and M.A. and Ph.D. programme in Hindi. It also provides a PG diploma in Hindi Journalism. Three research papers, one book and two book chapters were published by the faculty members. They attended seminars, workshops and gave invited lectures at different platforms. Alumni of the department are working in various Media Houses, Freelance Journalism, MOJO (Smartphone based Journalism).



## **Faculty of Life Sciences**

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

Department of Botany and Microbiology is running the programs of B.Sc. Botany/Industrial Microbiology, M.Sc. Microbiology and Ph.D. in Botany/Microbiology. The Department has good infrastructure in terms of classrooms, seminar halls, well-equipped research laboratories with inbuilt Wi-Fi facilities. Some advanced equipments available in the Department include ELISA reader, HPLC, UV-Vis spectrophotometer, Fermenter, Thermal Cycler etc. The faculty members have published 02 books, 25 book chapters and 43 research papers. The Department is running 04 research projects worth of Rs. 64.17 Lakhs, sponsored by the DST New Delhi, NMPB New Delhi and UCOST Dehradun. The Department conducted 01 International conference. The faculty members have also been involved in FIP's and delivered lectures as resource persons. They have also presented their research work in 09 seminars/conferences organized by various Universities/institutions. We also have a credit to place 100% PG students in various industries/institutions spread throughout the country. The three students have also qualified National level examinations including NET and GATE.

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

During the academic year 2023-24, the Department of Zoology and Environmental Science published 38 research papers. The faculty members of the department presented 15 research papers in various national and international seminars/conferences. Currently 04 research projects are running in the department covering various zoological and environmental problems. The department has organized 05 events as Ozone day, Wildlife week, World Wetland Day, World Environment Day, Use of Chinese manjha restricted awareness program. One student has qualified GATE 2023 and one student qualified USET 2023.

## **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 Ph.D. 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 and Department Library etc. The department also has adequate Wi-Fi facilities for teachers and students. The faculty of the Departmental published 09 research papers and presented 02 papers in conferences in 2023-24. The Department organized programme on National Mathematics day, 01 extension talk and 01 Guest lecture.

### **Department of Physics**

The Department of Physics is offering B.Sc., M.Sc and Ph.D. programme in Physics. Department of Physics organised different activities such as Teacher's Day celebration, Popular Science related talk and Personality Development talk etc. Eleven Research papers have been published in journals with good impact factors by the faculty members of the department in the academic year 2023-2024 and faculty members delivered 3 invited talks in conferences. One Research project is going on in the Department sponsored by Uttarakhand Science Education & Research Centre (USERC), Govt. of Uttarakhand, Dehradun with Prof. L.P.Purohit as P.I. The department has a very good infrastructure with state of art the laboratory facilities for research and a departmental library.

### **Department of Chemistry**

The Department is running Chemistry as a subject in UG programme, M.Sc. in Commercial Methods in Chemical Analysis (CMCA) and Ph.D. in Chemistry. CMCA is quite in demand and students after going through the programme got placement in various reputed industries and organization. There are 7 faculty members in the department who are actively involved in the development of department. The faculty members have published twenty six (26) research papers in SCOPUS and SCIE journals and presented 10 research papers in conferences. The department is known for its extension activities and organized 06 activities. The Department has an excellent strength of 107 students pursuing their masters.

### **Department of Computer Science**

The department of Computer Science presently running three courses MCA, B.Sc, and Ph.D. Department offers B.Sc. , MCA and PhD programme. There are six permanent faculty members in the department. All six faculty members are actively involved in research activities like paper presentation, journal publications, invited talks and book writing etc. During 2023-24, they have published five research papers in Scopus/SCI journals like Springer, Elsevier etc.



They are also involved in delivering the invited talks in other institutes/universities. Eighteen students in various reputed software multinational companies have been placed through the campus drive of university with a good package. Moreover, the department have published three books and seven chapters in various books. Furthermore, the department has completed one research project funded by UCOST Dehradun.

## **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 (Business Economics) (M.B.A. (BE)) and Ph.D. programs along with certificate course in The Art of Happiness and Sales Management. The department has adequate student strength in various programs. There are ten research scholars (7 Girls and 3 Boys among which 2- JRF/ SRF and 5-NET and 3-RET) pursuing their Ph.D. One of the scholars is serving IPS and another is senior manager in BHEL pursuing their part time Ph.D.

The Department has excellent infrastructural facilities bearing all latest modules, softwares and books in Library. The Department publishes newsletter, Manthan on an annual basis and 22 Volumes have been published so far. Similarly, Gurukul Business Review (GBR) is also published by the Department on an annual basis and 20<sup>th</sup> volume is ready for publication.

The faculty members have attended 05 national and 12 international seminars. There were 22 expert lectures taken by faculty members in India and Abroad and 19 books were published. There were five online seminars/guest lecturers organized by the department in 2023-24. 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. .

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**

In the department, one research project has been awarded by DRDO to Dr. Tanuj Garg on the research project, "Beam scanning rate enhancement in leaky wave antenna at X-Ku at a fixed frequency" for duration of 2.5 years w.e.f. 2021-22. The Department has published 16 research papers in SCOPUS indexed journals and 2 patents. 8 students qualified GATE under the capable guidance given by the faculty members of the department. 26 students have been able to get placements in different organizations. The committee is of the view that more collaborations and MoU 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. 10 students are doing research under the faculty members in the department. During this academic year, faculty members published a total of 2 book chapters and 1 faculty delivered invited talks, while 5 faculties have attended FDP. One conference full length paper was published in the department during current academic year.

### **Department of Mechanical Engineering**

There are 08 faculty members in the Department of Mechanical Engineering. Total 03 papers were published in SCI/SCOPUS indexed journals. 03 consultancies were conducted at the department for students of dentistry. 05 activities were conducted by the department for the holistic development of students and skill enhancement of staff members. A course of Diploma in Mechanical Engineering for Working Professionals were started by the department with the approval of AICTE. 08 students have appeared for the GATE exam. 24 students were placed in the recruitment process conducted by CAOC office of university. 02 book chapter were published by the faculties of department and 03 invited talks were presented at different levels.

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

There is one research project sanctioned to Prof. Mayank Agarwal by UCOST , Govt. of Uttarakhand, Dehradun. There has been regular RAC and BOS meeting during the entire session. A total of 10 research papers have been published in UGC CARE listed journals with good impact factors, showcasing the department's commitment to quality research. Faculty



members have contributed to 4 books/edited books/chapters, reflecting active involvement in academic publishing. Faculty members presented 6 research papers at conferences and seminars, highlighting their active participation in scholarly discussions. The department's faculty received 6 awards, recognizing their excellence and contributions in various fields. Two patents have been successfully filed/published, demonstrating the department's innovative capabilities. Faculty members delivered 23 invited talks, indicating their expertise and leadership in academia and industry. The department actively engaged in professional development, with 10 faculty members attending FDPs and workshops. The department has successfully organized 13 events, including workshops, seminars, and conferences, contributing to the overall academic enrichment.

### **Department of Electrical Engineering**

The department offers a regular course for the award of the degree in Bachelor of Technology (B.Tech) in Electrical Engineering since 2002 and Department also offers a three-year regular Diploma course in Electrical Engineering since 2022-23. The department organized a one-week induction program and one workshop for students. Department signed MOU with "Dronacharya Unmanned Aviation Innovation" (DUAL), Dehradun on February 2024. The faculties attend 01 FDP and presented 01 paper in International conference. One research paper has been published in peer reviewed Scopus indexed journal. 14 electrical engineering students qualified GATE 2024 Exam and 16 students placed in reputed companies or organizations.

### **Department of Applied Science**

The Faculty members of the Department of Applied Science are actively engaged in research activities. Nine research papers have been published in UGC-CARE listed and nine research papers have been presented by the faculty members in various national and international conferences during this session. One research project sanctioned by UGC has also been completed in Department of Applied Science in this session.

### **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 (Pharmaceutics, Pharmacology, Pharmaceutical

Chemistry) and PhD programmes. The Faculty members published twenty three research papers, eight book chapters and six books. The faculty members attended faculty development programs, short-term courses, seminars, workshops and presented papers. The faculty members also acted as resource persons in various events organized by different institutions/universities and also filed six patents during the session 2023-2024. The faculty carried out consultancy work and one MoU was signed in 2023-24. The students of the department were placed in various pharmaceutical companies and industries. During the session, the students also participated in internship programs conducted by different pharmaceutical industries.

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

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

The department of physical education and sports, Gurukula Kangri (Deemed to be University) Haridwar holding both academic and entire sports activities of the university. The academic activities concerning with running of various courses like Master in Physical Education (MPed- 4 semesters), Bachelor in Physical Education (BPed- 4 semesters) as a teachers training program and recognized by National Council for Teacher Education (NCTE) New Delhi. Under the UG program, department also running the Bachelor of Physical Education and Sports (BPES- 6 semesters) program and recognized by UGC, New Delhi. The department adds on various academic, sports and extra curriculum activities in its feather.

The department having a good class infrastructure in terms of 400 meter standard track, 14 grounds and courts (indoors and outdoors) six class rooms, three labs (computer, sports psychology and physiology, fitness labs), departmental library, multipurpose hall and faculties rooms. The department also has good strength of students studying at UG, PG and PhD course. This university is the pride member of Association of Indian University (AIU), New Delhi. Under the auspicious of this association, north zone and all India interuniversity tournaments (M&W) in various disciplines were allotted to the university and bonafide students take part in this tournament. The sports activities, are managed by sports council of the University.

### **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 had published 8 research papers in journals, 1 books and 1 book chapter. One extension programme had been conducted sponsored by Directorate of Homophobic Medical services, Govt. of Uttarakhand..

### **Kanya Gurukul Campus, Dehradun**

Kanya Gurukul Campus (KGC), established in 1923 in Dehradun by Acharya Guru Ramdevji, serves as a centre for women's education and became a part of Gurukul Kangri University in 1986. It offers a range of technical, professional, and academic courses. With 388 students enrolled in various undergraduate, postgraduate, and research programs, KGC is supported by a dedicated team of 25 teaching staff, 14 non-teaching members, and various guest and adhoc faculty. The campus is actively involved in research with 32 enrolled Ph.D. students. The campus continues to focus on fostering a holistic educational environment, contributing to the empowerment of women through education. One research project is going on in the faculty. Faculty members had attended twenty four FDPs. Twenty one papers were published by the faculty members of the campus in various UGC CARE listed journals, 47 papers were presented in conferences and seminars, one book and eleven books chapters were published in 2023-24.

### **Kanya Gurukul Campus, Haridwar**

The Kanya Gurukul Campus, Haridwar has 12 departments across various academic disciplines. Different UG, PG and Ph.D. programmes are being run in the campus.

The Department of Ancient Indian History, Culture and Archaeology, offers innovative courses related to archaeology, epigraphy and numismatics etc. 03 department activities were conducted. The faculty published 04 research papers and presented 02 papers in International conferences.

The Department of Psychology, organized 07 activities. The faculty published 04 research papers in UGC care list and presented 04 research papers in seminars. One book chapter was published and one book was edited in collaboration by the faculty.

The Department of Hindi, conducted 14 activities. 04 research papers were published and 07 papers were presented in the seminars by the faculty members.

In the Department of Philosophy, the faculty published 05 research papers and presented 04 papers in the seminars. 05 activities were conducted by the Department.



The Department of English, published 09 research papers in various journals and books. The faculty attended 05 conferences and presented 03 papers. Free online coaching was being made available for NET aspiring students.

The Department of Physics, conducted 01 activity. The faculty of the Department presented 06 papers in the conference and published 2 research papers in journals.

The Department of Mathematics and Statistics, conducted 04 activities. The faculty had published 10 papers in the SCOPUS and Web of Science indexed journals. 03 papers were presented and 02 invited talks were delivered in different International conferences. The Department offers various courses of 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, conducted 04 activities. There is one research project sponsored by UCOST. The faculty of the Department published 09 papers in SCOPUS and Web of Science indexed journals. 02 faculty members presented 04 papers in conferences and 01 guest lecture was delivered. 06 research scholars are working in the Department. Good placement of students is the strength of the Department.

The Department of Zoology and Environment Science organized 3 activities. The faculty published 08 research papers and presented papers in 07 conferences. The Department is well occupied with labs to analyse air, water and soil, Air Samplers, TDS metre, DO Meter, Flame Photometer etc.

In the Department of Botany and Microbiology, the faculty published 03 papers and presented 13 papers in various National /International conferences. The Department conducted 5 activities. One educational tour was also organized by the Department.

### **General Observations:**

1. The University may consider quality research papers and peer reviewed book chapters publications as a requirement for the award of PhD degree.
2. The University may consider incentives for quality publications by faculty members.
3. The alumni association may be strengthened by including Departmental Coordinators. The Departments in turn may have their own Alumni Association. The alumni contribution to the University may be increased.



4. The Departments should initiate some kind of remedial classes for slow learners.
5. The University lay emphasis on Value added courses in all the departments.
6. The publications by Gurukul Kangri faculty in the University journals/ magazines should be limited.
7. The Departments should make serious efforts to attract the prospective students.
8. The Departments should explore the possibility of consultancy projects.
9. Students/ teachers/ alumni feedback and analysis of the feedback is required.
10. Institutional scholarship may be provided for meritorious students and Ph.D scholars.
11. MoUs between the University and Industry or Scientific Organisations should be signed.
12. The institution should provide financial support to the teachers for attending conferences / workshops.
13. Faculty members should be encouraged to develop online MOOC / Swayam courses.
14. Faculty student ratio in major departments is poor, it should be improved.

### **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. Job oriented courses and programmes should be started by the University. Courses in Data Science or AI should be started especially for Humanities students.
4. The Departments of Botany and Zoology should start Master's programmes in Botany and Zoology.
5. Teaching and research resources should be shared amongst the different departments of the University..
6. All parameters of continuous assessment in NEP curriculum framework should be incorporated in the evaluation process.

### **Strength of the University**

1. The University encourages PG students to undertake minor research projects.

2. A few departments have exhibited 100 percent placement of their students such as Chemistry and Microbiology.
3. Certain departments propose to start innovative programs like Diploma in Hindu studies, Diploma in Hindu Philosophy, Entnopharmacology.
4. Many departments have their own libraries. The department of History is proud of having a rich departmental library in indology.
5. Archaeological Museum is a proud possession of the University.

### **Weaknesses of the Universty**

1. The University should take urgent step to recruit teachers as per UGC rules against vacant post.
2. The University should make suitable efforts to generate and distribute funds for proper functioning of the teaching departments.
3. All non teaching posts should be filled on priority basis.

