



SCHOOL OF BASIC AND APPLIED SCIENCES

About us

School of Basic And applied Sciences is one of the most prestigious departments of Lingaya's Vidyapeeth, which constantly encourages students to explore their own intrinsic qualities and enhance their talent through Latest, Outcome Based and advance teaching with research/projects.

SCIENCE • TECHNOLOGY • ENGINEERING • MATHEMATICS

STEM

Program Offered

- **B.Sc (Hons.) 3 Years Programme**
 - Physics -Chemistry -Mathematics -Biotechnology
- **M.Sc**
 - Physics - Chemistry - Mathematics
- **Ph.D**
 - Physics - Chemistry - Mathematics

Faculty

School Of Basic Sciences comprises eminently competent and efficient faculty wh is qualified from reput-ed universities of India like University of Delhi, Banaras Hindu University (BHU), Aligarh Muslim University (AMU), IIT's and NIT's. faculty members are Involved in Research Projects In various streams of Physics, Chemistry and Mathematics like fiber optics, optoelectronics and Optical communication, Plasma Physics, Material science, medicinal chemistry, Nano-Science, Waste water management, Organic/Inorganic Synthesis, DNA Binding, Biological evolution of Organic compound, Optimization, Group theory, Inventory, Operation Research. The Department has published large number of research papers in reputed national/International Journals. Department faculty is also part of National/International professional bodies, Editorial Team/Review Team of National/ International Journals.

Infrastructure

The School is having well equipped Chemistry Laboratory, Physics laboratory and Mathematics laboratory for B.Sc (Hons), M.Sc and PhD students. The School of Basic Science is having "Advanced Research Lab" including departmental Laboratories and central instrumentation facility for research, projects of students and research scholars.



Special Features

- ▶ Our students are doing research projects from B.Sc (Hons) first year itself under the expert guidance of faculty members and presenting their work in various conferences/ workshops.
- ▶ Our students have presented their research papers in different National & International Conferences/Workshops. They have been praised at different platforms as young researchers.
- ▶ Lingaya's Vidyapeeth is the only university where students are given industrial training in different industries like textile industries, paint industries, chemical industry in B.Sc (Hons) final year along with their regular classes.
- ▶ All Schools/Departments are following complete "Choice Based Credit System" (CBCS) Scheme given by UGC for UG and PG level. Moreover, Departments have incorporated and designed curriculum according to NEP 2020.
- ▶ Frequent Industrial visits to various industries like Chemical Industries, National Institute of solar energy (NISE), dairy industry, agriculture industry, CSIR labs, National physical Laboratory, Geological Survey of India (GSI), sewage treatment Plants etc are organized by School of Basic and Applied sciences.
- ▶ Guest lectures, In campus Research projects/ Workshops/Seminars have been organized for the students in an academic year.
- ▶ B.Sc and M.Sc students are placed by different placement companies, working in high-tech research labs like CSIR, NPL etc. Placement and research exposure are crowning glory for B.Sc (Hons.) Physics, Chemistry and Mathematics students of Vidyapeeth.

Career opportunities

The physics department is well supported by the Institute placement team. The entire placement process in the institution with the help of department coordinators. Career opportunities For B.Sc and M.Sc are as followed:

B.Sc (H) Physics

- ▶ Physicist
- ▶ Physics Lecturer
- ▶ Lab Assistant
- ▶ Research Associate
- ▶ Subject Matter Expert
- ▶ Technician
- ▶ Radiologist Assistant
- ▶ Academic Counselor
- ▶ Content Developer
- ▶ Quality Control Manager
- ▶ Scientist
- ▶ Radiation Oncologist

Placement Opportunities

- ▶ Subject Matter Expert
- ▶ Assistant Professor
- ▶ Physics Mentor
- ▶ Lecturer
- ▶ Faculty
- ▶ Lab Assistant
- ▶ Content Writer
- ▶ Training Manager
- ▶ Trainee Researcher
- ▶ Qualified Research Analyst

Career Prospects

- ▶ Research and Development
- ▶ Space and Astronomy
- ▶ Museums and Planetariums
- ▶ Healthcare
- ▶ Renewable/Non-Renewable Energy Sector
- ▶ Medical Technology Companies

M.sc Physics

- ▶ Robotics
- ▶ Nanotechnology
- ▶ Nano-Science
- ▶ Defense Services
- ▶ Energy Companies
- ▶ Radiation Protection Centre
- ▶ Physics Research Labs
- ▶ Oil and Gas Companies
- ▶ Geophysics & Meteorology



Placement Opportunities

- ▶ DRDO
- ▶ Physical Research Laboratory
- ▶ Saha Institute of Nuclear Physics
- ▶ ISRO (Indian Space Research Organization)
- ▶ Nuclear Science Centre
- ▶ BARC (Bhabha Atomic Research Centre)
- ▶ ONGC (Oil and Natural Gas Corporation)

Career Opportunities for B.Sc (H) Chemistry

The field of Chemistry is of great importance in our day to day life. Once candidate come out successfully as degree holders in B.Sc (H) Chemistry, they have various options for their future. There are various fields where B.Sc (H) Chemistry graduates can utilize their talents. Some of the career fields for B.sc (H) degree holder include the following:

- ▶ Waste Water Plant
- ▶ Medical laboratories
- ▶ Oil Industries
- ▶ Manufacturing and Processing Firms
- ▶ Testing Laboratories
- ▶ Petroleum Companies
- ▶ Pharmaceutical Companies
- ▶ Power Generating Companies
- ▶ Research and Development Firms
- ▶ Agriculture research Services
- ▶ Biotechnology Firms
- ▶ Chemical Industry
- ▶ Cosmetic Companies
- ▶ Paint industries
- ▶ Education sector
- ▶ Forensic Labs
- ▶ Food/Dairy Industry
- ▶ Hospitals
- ▶ Health care Providers
- ▶ Civil services

Some of the Public sector firms which offer job opportunities are

Bharat Petroleum, Indian Oil Corporation Limited, ISRO, Bhabha Atomic Research Centre, ONGC etc.

Some of the reputed private sectors firms that recruit B.Sc. (H) Chemistry are

Dabur, Hindustan unilever, Ranbaxy, Dr.Reddy's Labs, Meyer Organics Pvt Ltd, Asian Paints etc.

Career opportunities after B.Sc (H) Mathematics

- ▶ Software Industry
- ▶ Market research
- ▶ Banking sector
- ▶ Analyst
- ▶ Scientist
- ▶ Economic analyst
- ▶ Education Sector
- ▶ Research

After completion of Graduation in Physics, Chemistry, Mathematics, One can go for higher studies like M.Sc and MBA for finding reasonably good career in industries, research, teaching, corporate and management. A graduate has the option to appear for UPSC examinations. This provides an opportunity to join State administrative Service/ Central Government Services such as telecom, railways, PWD etc.

Mission

To be a School committed to promoting Science and research exploration and Education for attracting young talented students to the fold of Basic & Applied Sciences so as to contribute effectively to replenishing the national pool for scientific development who are responsible citizens and sincere professionals with deep knowledge.

Vision

- To strive to maximize human welfare through Science education and develop scientists who have the right attitude and aptitude to serve Society.
- To develop and maintain state-of-the-art infrastructure and research facilities to enable create, application and dissemination of knowledge.
- To create an interdisciplinary research environment.
- To develop human potential to its fullest extent so that intellectually capable and imaginatively gifted leaders can emerge who have deep respect for human life and values.

Student Testimonials



Lingaya's provided me the required knowledge and skills which helped me in refining myself and being eligible for this corporate world.



Lingaya's helped me in gaining experience at both social and professional levels. I still love this place and respect those who helped me to gain such a position in the industry.



Lingaya's provided me the best platform to groom myself academically as well as personally. I owe my thanks to my teachers for bringing out the best in me.



Lingaya's helped me in gaining experience at both social & professional levels. I still love this place & respect those who helped me to gain such a position in the industry.



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LINGAYA'S VIDYAPEETH

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