INFORMATION BROCHURE

Ph.D. Program 2023-2024

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GNA UNIVERSITY

Approved under the section 2(f) of UGC Act 1956

NAAC ACCREDITED

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77 YEARS of EXCELLENCE OF GNA GROUP

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Ph.D. Programs 2023-2024

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From the Desk of the
Chairman

I feel delighted to welcome you all to the GNA University. Our vision at GNA University is to develop a workforce having the professional capacity which is acceptable across the globe. Once you finish your chosen area of study in the University it makes you ready for the desired employment. We ensure that your academic journey at GNA remains rich and rewarding. We at GNA University strives to provide technology driven and tech supported learning environment to enhance your experience of learning. The education sector is undergoing tremendous change with the introduction of National Education Policy. GNA University is all prepared to adopt and implement the flexibility to be given to the student along with Focus on skill development, Entrepreneurship skills, startups and innovations. With this, I wish you the very

S. Gursaran Singh
Chairman,
GNA University

From the Desk of the
Chancellor

In the present world, there are revolutionary changes in all the learning domains. Knowledge and information are growing manifoldly. The conventional disciplines are undergoing rapid changes. We at GNA University, are striving to bring that change in the learning and development activities of the students. To meet the expectations of the nation and aspirations of society we follow the highest institutional principles. We are committed to bring excellence in all the activities pertaining to teaching, learning, research and administration. Learning is a gradual process and we provide the necessary environment and facilities to achieve the same. If you are also looking for excellent learning opportunities in your life, GNA University will surely be the best place to begin the next academic journey of your stupendous life.

S. Gurdeep Singh Sihra
Chancellor,
GNA University

VICE CHANCELLOR'S DESK

GNA University is driven by the powerful vision of providing an exciting learning experience to the research oriented students. The University is designed to focus on outstanding learning experience, relevant research and a global perspective. GNA University is one of the leading universities with multiple faculties.

The unique feature of the Ph.D. programs conducted at the University is the focus on society-beneficial research to have advancement in your career. The University has a strong industry and community interface to engage you on solving real life problems. The University strives to provide an intellectually and socially vibrant campus that offers a challenging and supportive environment for research. The GNA community of research oriented scholars, faculty, alumni, administrators, and staff stand out for their commitment to research excellence, entrepreneurial spirit, diversity, vibrancy, and creative innovation.

Dr. V.K. Rattan
Vice Chancellor,
GNA University

PRO-VICE CHANCELLOR'S DESK

The top priority of GNA University is to help the students fulfil their aspirations and dreams. We always believe to work in tandem with students to design customized academic plans and extend them a personalized learning environment with a great deal of flexibility and continuous monitoring.
GNA University is one of the leading NAAC accredited Universities in the country which was established in 2014 with a vision to impart education and promoting research in various disciplines of engineering, technology, science, and management. The focus of GNA University is to prepare young individuals to become professional leaders of tomorrow by imparting cutting-edge technical skills and knowledge, so that they can take on the real-life challenges in the future with confidence and maturity. We at GNA University strive for research-driven education. Our objective is to create an educational system with multifaceted outcomes, including research, entrepreneurship, technical leadership, and above all, responsible citizenship. We have made rapid strides during many previous years in all spheres of education and research. All academic programmes being offered by us in different disciplines have always been known for their excellence and are highly valued by our students and industry partners. Also, we now emphasize on PhD level education and research in a significant way. We have set up many states of the art research laboratories where scholars perform experimental research using the most sophisticated equipment and technology. Besides, we have acquired excellent study material in our library (online and offline). We have subscribed hundreds of the research journals in various disciplines from the most reputed publishers across the world. Moreover, we have also subscribed several prestigious data-base and plagiarism software for our faculty members and scholars. GNA University always promotes an informal atmosphere between faculty and scholars that helps in creating an ambience where scholarship flourishes. Our faculty members are not only engaged in teaching but are also very passionate about cutting edge technology research. We take pride on our faculty colleagues with an exceptional academic and research background who have always been the torch bearer, source of knowledge and encouragement for our scholars.
Finally, our University has a long tradition of striving for excellence in whatever we do. I hope we will be able to maintain this in the years to come.

Dr. Hemant Sharma
Pro-Vice Chancellor,
GNA University

DEAN's DESK

In 2016, University establishes its own Research and Development Cell (RDC) to start research programs. The first batch of Ph.D. programs started in the same year. The vision of the RDC is to represent the university as global research hub by putting a robust mechanism for developing and strengthening the research ecosystem within university aligned with NEP-2020.

The mission of RDC includes

(I) To create supportive environment for Enhanced research productivity.

(ii) To encourage collaboration across industry, society and government based organizations and agencies.

(iii) To facilitate greater access to research through mobilization of resource and funding.

To promote excellence in education, Research at GNA University is promoted with a clear approach to bringing quality in the research and providing solutions to the problems that exist in society. The University allocates a budget to each academic unit in every session for investment and research expenditure. In addition to the above, the University supports, monitors, and enhances the research efforts of faculty through various committees and policies. All the research policies are revised from time to time to promote future endeavors of the Research Scholars and Researchers.

Dr. Neeraj Puri
Asst. Dean, Research,
GNA University

ABOUT GNA UNIVERSITY

GNA University (GU) is designed to be a leading higher education organization engaged in creating, preserving and imparting knowledge to a diverse community of students. The University aspires to nurture value based leaders who have knowledge and skills to create success in their organizations.

The university seeks to improve the quality of life through eclectic blend of science, technology and humanities for innovative solutions to real life problems. The university is engaged in imparting, creating, preserving and propagating knowledge in the global context.

The unique feature of the programs conducted at the University is the focus on experiential learning, industrial internships, learning to learn principles, flexible, credit based study programs and holistic development of personality which in turn will ensure employability of the students.

The GNA University benchmarks itself with leading institutions across the world in terms of intellectual capital, academic quality, delivery practices and industry linkages. The University credo includes focus on meritocracy, transparency, accountability, ethical behaviour and service orientation.

GNA University Research and Development Cell (GURDC)

GURDC is research governing body that addresses all the research related matters. It offers an intellectually demanding doctoral program for high-potential applicants who already have a breadth of acknowledge in functional area of their chosen sector and having an inclination towards research development.

Ph.D. PROGRAM

GU is committed to create a pool of imaginatively gifted leaders who can push the boundaries of knowledge and skills, challenge the intellectual threshold to address the problems of the society via cutting-edge research and collaborative projects between academia & industry.

Ph.D. Program at GU is committed to train scholar and researcher to attain excellence in scientific & technical education, portraying the nation as a research hub at global platform. This program is design to shape research centers at GU to be truly Global Interdisciplinary Research Center of Excellence where Teaching and Research are closely interwoven representing all academic disciplines.

GNA University offers Ph.D. program in following streams:

Business Management and Commerce / Hotel Management and Tourism / Physical Education / English / Journalism / Physics / Chemistry/ Mathematics / Mechanical Engineering / Computer Science Engineering / Electronics and Communication Engineering / Computer Application

APPLICATION CATEGORIES

- Regular Self - Financed: Regular candidates affording the cost of research working at GU.
- GU Research Assistant (GRA): Exceptional candidates receiving assistantship from GU.
- MoU Candidates: Candidates working under any MoU between with GU and external organization.
- NET/GATE/SLET Candidates with or without fellowship.
- JRF/SRF/RA: Candidates carrying own Fellowships from Govt. bodies.
- JRF/SRF/RA Under Funded Research Projects in GU.
- Regular Academic Staff of GU: Register for part time Ph.D.
- Non-academic Staff of GU: Register for part time Ph.D. while fulfilling eligibility criteria
- Sponsored/Corporate Candidates: Sponsored by organizations/corporate houses
- Working faculty other than GU: Register for part time Ph.D. while fulfilling eligibility criteria.

Eligibility Criteria: 55% marks in Master's Degree (50% in case of SC/ST/OBC)

ELIGIBILITY

For admission to the Ph.D. programme at GU, applicants fulfilling the following criteria shall be treated as eligible:

- Candidate having passed Post Graduate Degree (Master Degree) Examination with at least 55% marks (50% marks in case of SC/ST/OBC) or equivalent Grade Point Average (GPA).
- The Entrance Exam and interview carry 70% and 30% weightage respectively for the final selection.
- Candidates possessing a Degree considered equivalent to Post Graduation / Master's Degree of an Indian Institution, from a Foreign Educational Institution accredited by an Assessment and Accreditation Agency which is approved, recognized or authorized by an authority, established or incorporated under a law in its home country or any other statutory authority in that country for the purpose of assessing, accrediting or assuring quality and standards of educational institutions, shall be eligible for admission to Ph.D. programme.

ENTRANCE EXAMINATION

- Entrance Examination shall be conducted twice in a year for the admission cycle beginning in July and January respectively depending on the number of vacancies.
- Entrance Examination will be valid for consecutive two semesters.
- Application fee shall be as per university norms prescribed from time to time.

EXEMPTION FOR ENTRANCE EXAMINATION

- A candidate having qualified SLET/NET/JRF/SRF examination of the apex bodies such as CSIR/UGC/ICAR/ICMR/DST/DBT/ICSSR and/or any equivalent test/exam/fellowship received will be exempted from Entrance Examination.
- Foreign candidates holding valid visa for PhD studies under ICCR or any other exchange programme shall be considered for exemption from entrance test examination. However, the decision of the research committee will be final in such circumstances.
- Candidates entitled for exemption from the Entrance Examination shall submit the Registration Form along with relevant supporting documents within the stipulated period before the date of interview.

STRUCTURE OF THE ENTRANCE EXAMINATION

The test will be conducted in two phases (or as per UGC Guidelines) comprising objective type questions in Paper I and II. Paper I and II will be carrying 100 marks each having 60 questions out of which 50 are to be attempted in 60 minutes per paper.

Paper I – Research Methodology (MCQ)

Paper II– Subject Specific (MCQ)

Minimum 50% marks are required to be considered as "Qualified" to appear in personal interview. There shall be no negative marking.

INTERVIEW / ADMISSION / REGISTRATION

- All eligible candidates shall be required to appear for interview to make a presentation on proposed research before Interview Committee / Doctoral Research Committee (DRC)/ Research Advisory Committee (RAC).
- After satisfactory presentation, the list of selected candidates shall be sent to the Dean, Research.
- The Registration will be confirmed after the approval of Research Advisory Committee (RAC). Dean Research shall admit and register the candidate(s) as per the rules and regulations of the University.
- All the successful candidates seeking admission to the Ph.D. programme shall apply to the Registrar, GNA University in the prescribed Application Form along with the registration fee as may be prescribed from time to time.
- The registration shall be valid for six years.

PH.D. THROUGH PART-TIME MODE

(a) Ph.D. programmes through part-time mode will be permitted only for working officials, provided all the conditions stipulated in the PhD. Regulations 2022 are fulfilled.

(b) The candidate shall submit a "No Objection Certificate" for a part-time Ph.D. programme from the appropriate authority in the organization where the candidate is employed, clearly stating that:

i. The candidate is permitted to pursue studies on a part-time basis.
ii. His/her official duties permit him/her to devote sufficient time for research.
iii. If required, he/she will be relieved from the duty to complete the course work.

(c) The institute do not conduct Ph.D. programmes through distance and/or online mode.

COURSE WORK

The qualified candidates must undergo course work which is compulsory as under:

- Research Methodology (Quantitative Methods and Computer Applications).
- Research and Publication Ethics.
- Advanced Level Subject Specific Course.
- Seminar/Presentation.

The course work will be for a minimum Period of one semester. It is mandatory (as per UGC norms) for every candidate to clear / pass the course work examination.

ALLOTMENT OF RESEARCH SUPERVISOR

Allotment of Research Supervisors for selected candidates shall be decided by the University in a formal manner depending on the number of seats or the available specialization among the faculty members. Research Supervisors and the research interest as indicated during interview by the candidates will form the basis of supervisor allotment.

RESEARCH PROGRESS

- Followed by the coursework the candidate is required to make a presentation of his/her Final Synopsis/Research Proposal (in the format described) in consultation with research supervisors before the RAC.
- If the presentation is unsatisfactory, the proposal shall be revised and the applicant shall be required to submit a fresh proposal and make a presentation again after a gap of one month and/or as suggested by the RAC.
- Followed by the coursework, the candidate is required to submit his Synopsis/ Research Proposal within 12 months from the date of successful completion of PhD course work. However an extension of maximum period of six months shall be given by Vice Chancellor of the university on the recommendation of Research Advisory Committee. If the research work of a PhD student involves experiments /data collection related to the medical field, environment issues etc.; he will require the approval from Ethics Committee of University through Supervisor / Co-supervisor to pursue that research work.
- The RAC may also recommend a Co-Research Supervisor/s (in case of inter-disciplinary subjects) from any recognized University.
- During the execution of research work if the candidate and supervisor find the need of minor modifications in the title and the proposed plan of the research, the supervisor shall approach the DRC with justifications. The DRC in consultation with RAC shall approve such changes.
- As per provisions of Ordinance, registered candidates shall not be allowed to register simultaneously for any other degree course in regular mode.
- All the registered candidates shall be required to deliver a presentation and submit a progress report to the DRC in consultation with Research Supervisors after every six months. If a candidate fails to submit three reports consecutively, his/her registration may be treated as cancelled on recommendation of DRC.
- DRC shall also send a copy of the progress report submitted by the candidate to the Dean Research. Dean Research shall forward the copy of the progress report to RAC for further approval. RAC shall scrutinize the progress reports and prepare a brief statement on the progress of the candidate.

CANCELLATION OF REGISTRATION

- The registration of a research Scholar, who has exceeded the maximum period stipulated for Ph.D. program and also because of disciplinary action, shall stand cancelled automatically.
- In case of indiscipline at any stage, registration will stand cancelled if found guilty of indiscipline by the committee constituted by Vice Chancellor.
- The registration of a research scholar is liable for cancellation by RAC if
  - -If he/she has not paid the fee for continuous two semesters.
  - -The PhD work performance is not satisfactory to the DRC/RAC and accordingly recommended for cancellation.
  - -The PhD scholar withdraws the course and wishes to cancel her/his registration.

SUBMISSION AND EVALUATION OF THESIS

Submission and evaluation of pre-thesis, format and evaluation of thesis and viva voce in defence of the thesis will be organized as per GNA regulations and as per the guidelines of University Grant Commission.

COMPLETE PROCEDURE OF PH.D PROGRAM

Inviting Applications for Ph.D. program

⇩

Entrance Examination

⇩

Announcement of Entrance Result

⇩

Personal Interview cum Document Verification of Entrance Qualified Candidates

⇩

Entrance + Interview Qualified Candidates list out

⇩

Fee submission and Registration

⇩

Course work of six months

⇩

Course work Completion

⇩

Allotment of Supervisors

⇩

Synopsis Submission and Approval within six months from the date of the coursework result

⇩

Mandatory Progress Report Presentations every six months

⇩

Pre Thesis submission Examination after completion of the research work

⇩

Recommendation for Thesis Submission after including all suggestions of research advisory committee

⇩

Submission and Evaluation of Thesis

Fee Structure

Application Fee	Rs. 1000/- (For all Categories)
Tution Fee	Rs. 50,000/- for first semester (Including Registration Fee of Rs. 10,000/-) Rs. 35,000/- for subsequent semesters

Note: Fee structure is subject to revision from time to time.

For Students from Abroad

Application Fee	$ 100 USD
Registration Fee	$ 150 USD (Included in Tuition Fee)
Tution Fee	$ 900 USD for 1st semester $ 600 USD for subsequent semesters

Note: Application fee, tuition fee and registration fee is Non-Refundable

FELLOWSHIPS AND CATEGORIES OF CANDIDATES

- The Ph.D. program leading to the doctoral degree is a self-financed program. No students / candidates can claim fellowships / scholarships / funds for research work other than what they have qualified for via competitive examination at national or International level.

- Research committee can consider any fellowships / scholarships if available to meritorious or exceptional candidates.

RESEARCH LEADERS

Dr. V.K. Rattan
Research Area: Environmental Science/ Chemical Engineering/ Thermdynamics
Experience: 40 Years

Dr. Hemant Sharma
Research Area: General and Operational Management
Experience: 25 Years

Dr. Monika Hanspal
Research Area: Banking and Finance
Experience: 20 Years

Dr. Neeraj Puri
Research Area: Nano materials doped Ferroelectric Liquid crystals/ condensed Matter Physics
Experience: 17 Years

Dr. Sameer Varma
Research Area: Commerce
Experience: 20 Years

Dr. Vikrant Sharma
Research Area: Optical Fibre/Wireless Sensor Netwoks/AI
Experience: 20 Years

Dr. Anil Pandit
Research Area: Cryptography / Information Security / SNMP / Network Security
Experience: 17 Years

Dr. Disha Khanna
Research Area: Afro-American Literature, Transgender Studies, Spiritual Literature, Psychoneurobics, NLP & Literature
Experience: 18.3 Years

Dr. M.P. singh
Research Area: Medical Lab Technology
Experience: 29 Years

Dr. Ranvir Singh
Research Area: Mechanical Engineering (Additive manufacuring, Material composition, Bio medical implants)
Experience: 11 Years

Dr. Hitesh Marwaha
Research Area: Cloud Computing/Data Analytics/Algorithm Design & Analysis
Experience: 17 Years

Dr. Anurag Sharma
Research Area: AI/Cloud/Signal Processing/Communication
Experience: 17 Years

Dr. Deepak Kumar
Research Area: Hotel Management/ Human Resource
Experience: 17 Years

Dr. Parm Preet
Research Area: Sports Training, Officiating & Coaching
Experience: 11 Years

Dr. Yogesh Bhalla
Research Area: Industrial Mathematics / Differential Equations
Experience: 17 Years

Dr. Ashutosh Verma
Research Area: Organizational Citizenship Behavior/ Big-Five Personality/Job Satisfaction
Experience: 16 Years

Dr. Rajinder Kaur
Research Area: Economics/ General Management
Experience: 20 Years

Dr. Parveen Singh Kalsi
Research Area: Marketing
Experience: 17 Years

Dr. Manoj Kumar
Research Area: Microbial Biotechnology /Bioremediation
Experience: 9 Years

Dr. Anuranjan Sharda
Research Area: Thermal/Energy Engineering
Experience: 25 Years

Dr. Rashim Verma
Research Area: Accounting/Finance/ Banking
Experience: 12 Years

Dr. Sarneet Kaur
Research Area: Artifical Intelligence/ Cloud Computing
Experience: 5 Years

Dr. Syed MufassirYaseen
Research Area: Medical Engineering AI,ML
Experience: 1.6 Years

Dr. Sumit Chopra
Research Area: Digital Image Processing /Soft Computing / Machine Learning
Experience: 17 Years

RESEARCH LEADERS

Dr. Manpreet Kaur
Research Area: Marketing/Political Marketing/Social Media Marketing
Experience: 2 Years

Dr. Jyoti Singh
Research Area: Banking/Finance
Experience: 2 Years

Dr. Namita Kalra
Research Area: Finance and Marketing
Experience: 14 Years

Dr. Annumeet
Research Area: Finance and Management
Experience: 7 Years

Dr. Mandeep Singh Heer
Research Area: Microstrip Patch Antenna (Wireless Communication & RF Engineering)
Experience: 11 Years

Dr.Sumant Sharma
Research Area: Hotel Management/ Food ad Beverage Service /Room Division
Experience: 10 Years

Dr. Prince Verma
Research Area: Pro-poor Tourism and Community based Tourism
Experience: 2 Years

Dr. Nipun Chhabra
Research Area: Cloud computing, Electronics, Microprocessor and Data Structures
Experience: 18 Years

Dr. Barjinder Kaur
Research Area: Nonlinear Dynamics/ Plasma simulationa dn Techniques/ Plasma physics
Experience: 12.5 Years

Dr. Raj Kamal Kaur
Research Area: Bio informatics, Artificial Intelligence, Machine Learning,Security, E -Learning Expert System, System Analysis.
Experience: 1.5 Years

Dr. Rashmi Sharma
Research Area: Analysis/Fixed Point Theory/Spaces in Real Analysis
Experience: 4 Years

Dr. Kuljit Kaur
Research Area: Organic and Materials Chemistry/ Waste water treatment
Experience: 14.7 Years

Dr. Tanu Mittal
Research Area: Nanomaterial-Nano composite/Material Chemsitry/Hybrid solar cells/water treatment
Experience: 2 Years

Dr. Rishi Kant
Research Area: Bioinorganic and Coordination Chemistry/Computational ChemistrySynthetic chemistry
Experience: 5 Years

Dr. Aashima Beri
Research Area: Biophysical Chemistry/ Drug additive interaction/ Amino acid/ inorganic electrolytes/Physical Chemstry
Experience: 8 Years

Dr. Suresh Kumar
Research Area: Test & Measurent in Phy. Edu & Sports and Sports Psychology
Experience: 6 Years

Dr. Sunil Kumar Paswan
Research Area: Micro/nano machining processes and Industrial Automation
Experience: 4.5 Years

Dr. Dinesh Kumar Sharma
Research Area: English Literature
Experience: 6 Years

Dr. Anchal Rani
Research Area: Biodegradation, Environmental Microbiology
Experience: 3 Years

Dr. Parampreet Singh
Research Area: Combustion, CFD and Heat Transfer
Experience: 1 Year

Dr. Shahnaz Kossar
Research Area: Nanofabrication and Nanoelectronics, Semiconductors and thin films technology
Experience: 9 Years

Dr. Deepanshu Srivastava
Research Area: Computer Integrated Manufacturing, Automation, Robotics, Industry 4.0
Experience: 4.5 Years

Dr. Mansi Singh
Research Area: Journalism/ Development Communication
Experience: 7 Years