



- School of Engineering & Technology
- School of Business Studies
- School of Dental Sciences
- · School of Medical Sciences & Research
- School of Allied Health Sciences
- · School of Creative Art, Design & Media Studies
- · School of Law

- · School of Basic Sciences & Research
- · School of Architecture & Planning
- · School of Languages & Culture
- · School of Nursing Science and Research
- · School of Education
- · School of Pharmacy
- · Sharda Hospital

SHARDA UNIVERSITY CAMPUS

Plot No. 32, 34, Knowledge Park-III, Greater Noida (Delhi-NCR)-201310 | **Phone**: 0120-4060210/11 | Helpline: **0120-4570000** | Website: **www.sharda.ac.in**

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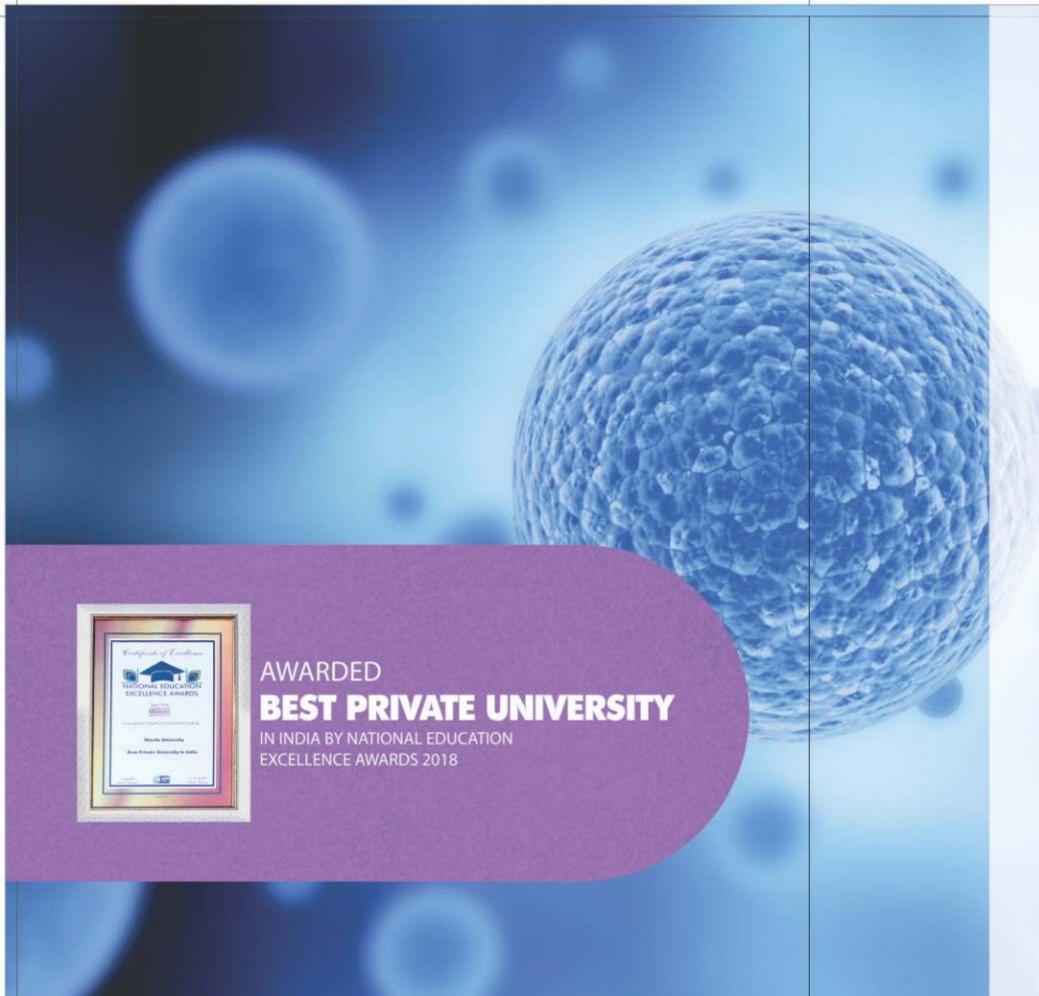
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FUTURE IS NOW TO DISCOVER



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SHARDA UNIVERSITY

ONE OF NORTH INDIA'S LEADING UNIVERSITIES

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The Sharda Group of Institutions (SGI) have been the provider of world class education since 1996. SGI the largest educational group based in Uttar Pradesh, has on its rolls 20,000+ students and more than 1200+ faculty members. Its 45,000+ alumni are today the leaders in their realms. The state-of-the-art campuses in Agra, Mathura and Greater Noida are located on 180 acres of land. Sharda Group of Institutions were the first in the self-financing sector in North India to receive Accreditation from the National Board of Accreditation (NBA) for internationally competitive Teaching-Learning Processes and Infrastructure facilities.

Responding to the strong need of bringing world class education to India at affordable price, Sharda Education Trust established a multi-disciplinary global university in the year 2009. Sharda University is located at Knowledge Park-III, Greater Noida in the National Capital Region (NCR), 25 km away from New Delhi.

The curriculum offered is continuously upgraded to keep pace with the overall development of industry and in line with the best practices followed world over. Highly stimulating instructions developed by experienced Indian and International faculty are delivered in ICT enabled environment, to train students and to develop their skills in tune with national campaigns like; 'Make In India' and 'Digital India'. The teaching-learning process coupled with convenient and flexible credit options make Sharda University a truly global University.

"

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ACRE SPRAWLING CAMPUS



GLOBAL ACADEMIC TIE-UPs



STUDENTS PLACED



NATIONALITIES ON CAMPUS



TOP FACULTY



ALUMNI WORLDWIDE



RESEARCH & INNOVATION AT PAR WITH THE VERY BEST

Established with the aim of developing top scientists, the School of Basic Sciences & Research has evolved into one of the leading Schools for interdisciplinary science in Delhi-NCR. The School is committed to providing a transformative learning experience in a collaborative and diverse environment. The School's advanced laboratories; and focus on research and innovation gives students a feel of practical and immersive education.





DEGREES

STUDENT-**FACULTY** RATIO











ACTIVE : MENTORING OF STUDENTS : DELHI-NCR



LIBRARIES IN





Over the years, Sharda University has received top accolades from prestigious publications and reputed surveys. Recently, Sharda University was awarded the Best Private University in India by National Education Excellence Awards 2018.

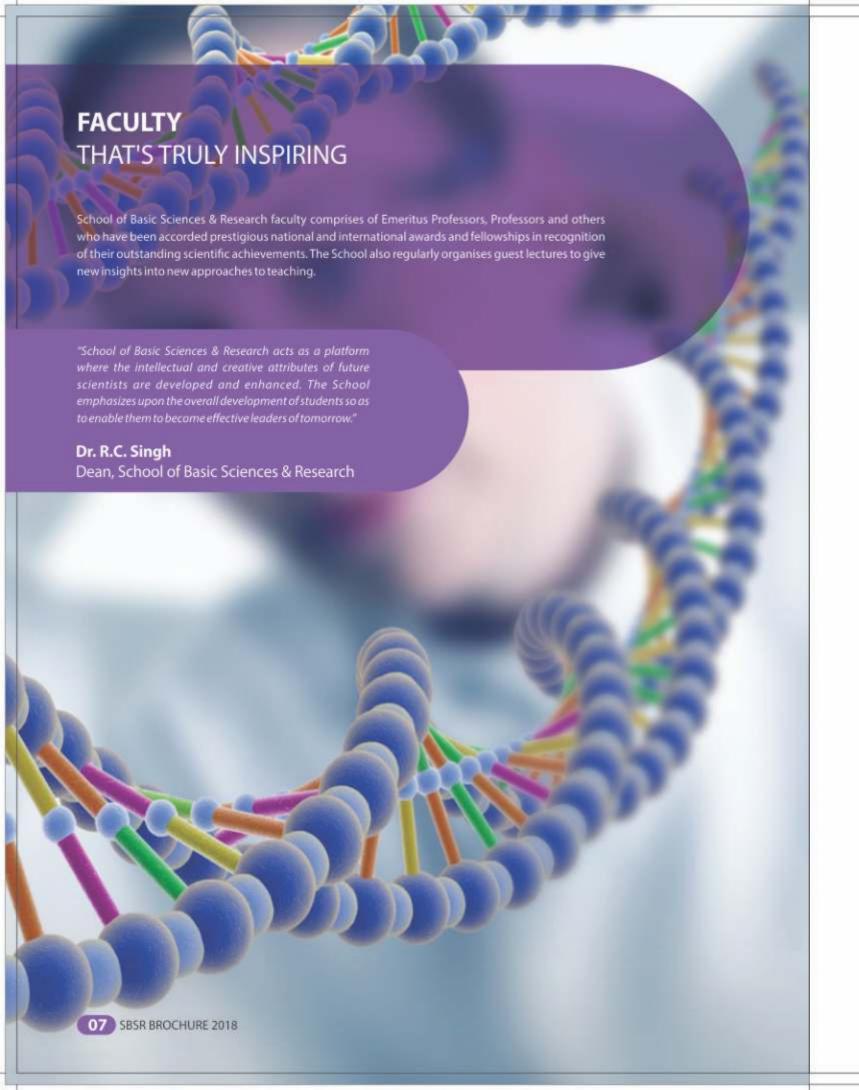
Guest lectures by eminent personalities from various fields as well as workshops and seminars are organised regularly.

The School is known for its cutting-edge research sponsored by various national and international agencies. The School has three research centres-Materials Research Laboratory, Environmental Science Laboratory and, Research and Technology Development Centre for carrying out research activities of Government funded research projects.

Curriculum offered is in line with those offered in premier educational institutions across the world in the field of interdisciplinary science education.

The School is equipped with well-stocked library; Wi-Fi enabled spacious classrooms with projectors and other audio-visual aids.

Students are encouraged to submit their innovative ideas to external agencies for funding through Business Incubation Centre of the University sponsored by Ministry of Micro, Small and Medium Enterprises, Government of India.





Prof. R. C. Singh, Dean & Professor (Physics)

More than 31 years of experience. Published more than 20 research papers. Conferred Bharat Vidya Shiromani Award, Pride of International Education Excellence Award during Indo-Nepal Friendship Summit at Kathmandu, Star of Asia Award by International Business Council, New Delhi and the Global Achievers Foundation, Bharat Vibhushan Samman Puraskar, Lifetime Achievement Award by National & International Compendium, New Delhi.



Prof. H.S. Gaur, Professor In-Charge, HoD (Agriculture)

LL.B., M.Sc., Ph.D

Obtained his M.Sc., with Golden Jubilee Medal and Ph.D from IARI, New Delhi in 1975 and did post-doctorate research at Rothamsted Research, UK. He is a renowned nematologist, with 43 years experience. He has to his credit over 340 publications.



Dr. Munendra Singh, Associate Professor & HoD (Physics) M.Sc., M.Phil, Ph.D.

More than 16 years of teaching and research experience. Published several research papers in reputed journals and presented several research papers in international conferences. Areas of interests are Cosmic Rays and Space Physics, Solar influence on Earth's weather, Signal Analysis and Image Processing and Radio-medical Physics.



Dr. Rita Singh Majumdar, Professor & HoD (Biotechnology)

35 years of teaching and research experience in the field of plant tissue culture, molecular biotechnology, and cultivation of medicinal &

aromatic plants. Attended and Chaired several international/national conferences.



Dr. Geeta Durga, Associate Professor & HoD (Chemistry) M.Sc., NET (UGC-CSIR), Ph.D

16 years of teaching and research experience. Published 4 papers in international journals, 1 paper in National journal and 3 book chapters. Attended several short term courses. Research interest is in the development of polymer blends, chemical sensor materials and water remediation.



Dr. Khursheed Alam, Associate Professor & HoD (Mathematics)

Obtained his M.Sc. and Ph.D degree in Mathematics in the year 1999 and 2005 respectively from Jamia Millia Islamia, New Delhi. Published many research papers in reputed Journals and wrote five Books for U.G. Level. His research area is Fractals using Wavelet, Image Processing. Non-Linear Dynamical Systems and Chaos Theory.



Dr. Rajesh Kumar, Professor & HoD (Environmental Science)

Over 18 years of teaching experience, Published 70 National and International research papers, Excellent execution of various environment related research projects funded by both national and international funding agencies like USAID; South Asia Water Initiative (SAWI), ICIMOD,

Kathmandu, Nepal, DST, DRDO and MOES, Govt. of India.



Prof. Abul Hasan Siddiqi, Professor (Mathematics)

Prof. Abul Hasan Siddiqi has started his academic career after obtaining post-graduation in Mathematics in 1962 and subsequently Ph.D. degree in 1967. Since then he is actively engaged in teaching and research of diverse areas of Mathematics and its applications such as Functional Analysis, Approximation Theory, Vibrational Inequalities, Wavelet Analysis and Inverse Problems using wavelet.



Prof. U. V. Balakrishnan, Professor (Mathematics) M.Sc., Ph.D

Gold Medallist for M.Sc. (Mathematics). Ph.D (Mathematics-Theory of Numbers) from TIFR. Bombay. He has total more than 40 years of experience. His research area is Number theory and Cryptography.



Dr. Shahana Majumder, Professor (Life Science)

16 years of research and teaching experience. Completed two externally funded project by DBT and one is on going.



Dr. S. Packirisamy, Professor (Chemistry) M.Sc., Ph.D

37 years experience. Ex-Deputy Director, VSSC/ISRO and, Visiting Scientist, Michigan Molecular Institute, USA, Has to his credit 14 Patents, 5 Reviews/Book Chapters, 45 Research Papers in International journals and 79 papers presented in International/National Conference.



Dr. Mohit Sahni, Associate Professor (Physics)

12 years of teaching and research experience. Published several research papers in National and International journals. Presented research papers in India and abroad. Reviewer of 3 international journals. Research interests in ferromagnetic and ferroelectric.



Dr. Pramod K. Singh, Associate Professor (Physics) M.Sc., Ph.D

Ph.D (BHU, Varanasi), M.Sc. (Purvanchal University, Jaunpur), Post-Doctorate from South Korea, Norway and Turkey. Reviewer of more than 20 International research ournals. Published more than 80 research papers in international journals.



Dr. Vinay K. Verma, Asst. Professor (Chemistry) M.Sc., Ph.D

12 years of research and teaching experience. 12 papers published in reputed International journals. Current research interest is to develop chemistry of Se and Te, ganochalcoge substituted bioactive molecules and luorescent materials for chemical.



Dr. Krishna K. Pandey, Asst. Professor (Physics) M.Sc., Ph.D

13 years experience. Research interest is Ultrasonic Attenuation studies due to electron-phonon interaction, phonon-phonon interaction, thermoelastic loss and dislocation damping in different type of solids, nanocrystalline systems,



Dr. Alpna Mishra, Asst. Professor (Mathematics) M.Sc., Ph.D

Done B.Sc. and M.Sc. in Mathematics from Dr. B.R. Ambedkar University, Agra and obtained her Ph.D degree in the field of "Mathematical Modelling" with a scholarship from DST. Total teaching experience of more than 9 years.



Dr. Sangeeta Gupta, Asst. Professor (Mathematics)

Obtained her M.Sc. and Ph.D Degree from Dr. B.R. Ambedkar University, Agra. More than 15 years experience of teaching Mathematics in graduate and post graduate level. Her research area is Operations research and Optimization techniques.



Dr. Suman, Asst. Professor (Environmental Science) M.Sc., Ph.D

11 years experience. Published 3 research papers in National and 1 research paper in International Journal.



Dr. Meenal Gupta, Asst. Professor (Physics) D.Phil, Post Doctorate

10 years experience. Published 7 research papers in international journal. Life member of International Liquid Crystal Society. Current interest is to develop prototype super capacitors.



Dr Anupam Agarwal, Asst. Professor (Chemistry)

Ph.D (Organic Chemistry), M.Sc. (Dr. B.R. Ambedkar University, Agra), Post Doctoral studies from University of Western Ontario, Canada. 9 years of teaching experience. Expertise in organophosphate esters having wide scope in nsecticides, herbicides and plasticizer industries.



Dr Noopur Srivastava, Asst. Professor (Chemistry)

Ph.D (CDRI) (CSIR), Lko), M.Sc., Lucknow University), CSIR-NET. More than 10 years experience. Expertise in design and synthesis of antitubercular molecules, lead identification and optimization of new chemical entities (NCEs) as antitubercular agents.



Dr. Nidhi Sahni, Asst. Professor (Mathematics) M.Sc., Ph.D

M.Sc. and Ph.D in Mathematics from DDU Gorakhpur University, Gorakhpur. Her area of research is special functions and she worked as a junior research fellow in a ajor research project during her Ph.D.



Dr Sonia Khanna, Asst. Professor (Chemistry)

More than 7 years of teaching experience, 12 papers published in international journals. Experience in synthesis and characterization of metal complexes with



Dr. Manish Sharma, Asst. Professor (Physics)

16 years experience. Six Sigma Green Belt from Motorola University, USA. Published more than 15 research papers. Filed 2 patent, Member of Materials Research Society of India.



Dr. Sweta Srivastav, Asst. Professor (Mathematics)

9 years of teaching experience. Published 13 international and 4 national research papers. Leading a research group in the field of Mathematical modeling and Graph theory.



Ms. Archana Kumari Prasad, Asst. Professor (Mathematics) M.Sc., Ph.D (Pursuing)

Did M.Sc. in Mathematics from Rani Durgavati University, Jabalpur (M.P) and awarded Gold medal. Qualified CSIR-NET and pursuing her Ph.D from the same Institution.



Ms. Sandhya Gupta, Asst. Professor (Physics) M.Tech, M.Phill, Ph.D (Pursuing)

14 years of teaching and research experience. Current research interest is ionic liquid doped PEO based polymer electrolytes, optical fibre sensor.



Dr. Prem Shankar Jha, Asst. Professor (Mathematics)

Done his Ph.D. in Statistics in the Department of Statistics, Banaras Hindu University Varanasi in 2017 on the topic Estimation of Population Parameter's Using Auxiliary Variable in Finite Population in the Presence of Non-



Dr. Richa Sharma, Asst. Professor (Mathematics) M.Sc., Ph.D

M.Sc. in Mathematics from C.C.S. University Meerut and obtained her Ph.D degree from JIIT, Noida in 2015. 8 years of teaching experience. Specialization in Solid Mechanics and published many research papers in international journals.



Dr. Mohd. Shahid Baboo, Asst. Professor (Mathematics) M.Sc., Ph.D

M.Sc. in Mathematics from Jamia Millia Islamia, New Delhi. Qualified CSIR-NET. Awarded Ph.D degree in Mathematics from Jamia Millia Islamia.



Dr. Anshu Kumar, Asst. Professor (Mathematics) M.Sc., Ph.D

M.Sc. in Mathematics from CCS University, Meerut & qualified CSIR-NET and obtained his Ph.D degree from NIT, Allahabad in 2017.



Dr. Uzma Manzoor, Asst. Professor (Agriculture) M.Sc., Ph.D

Received her M.Sc. and Ph.D degree in (Agriculture) Plant Protection (Spl. Entomology) from AMU. Was a DST-Inspire Fellow and has received two university gold medals. Published 16 research papers, 3 book chapters, 5 lead papers and a book.



Dr. Dipender Kumar, Asst. Professor (Agronomy) M.Sc., Ph.D

M.Sc. degree from SVPUAT, Meerut and Ph.D from PAU, Ludhiana. Two years of teaching and research experience. Published 8 research papers in reputed scientific journals and presented papers in conferences.



Mr. Sunil Chauhan, Asst. Professor (Physics) M.Sc., M.Tech, Ph.D (Pursuing)

Published 22 research papers in International Journal of repute and has expertise in Multiferroic Materials. His publications have received more than 414 citations and hindexis 11.



Dr. Venus Dillu, Asst. Professor (Physics) M.Tech., Ph.D

Ph.D (Delhi Technological University), M.Tech. (NIT Jamshedpur). Published 17 papers in various international journals and international conference proceedings. Filed 1 patent and has received several awards from the Optical Society for paper presentations.



Dr. Preeti Rani, Asst. Professor (Physics) M.Sc., Ph.D

Published 6 research papers in International Journals of repute. Expertise in photonic crystal and fibers. Member of SPIE and OSA.



Dr. Nikita Sethi, Asst. Professor, (Biotechnology) M.Sc., Ph.D

Completed her B.Sc. in Food Technology from Delhi University, M.Sc. in Food Science and Technology and Ph.D in Dairy Technology from ICAR-National Dairy Research nstitute, Karnal.



Dr. Fazlurrahman Khan, Asst. Professor (Life Science) M.Sc., Ph.D

4 Years of post Ph.D research and teaching experience. Qualified CSIR-UGC-NET-JRF and GATE (99.55 percentile, all India 77 rank). Published 18 papers in reputed Journals



Dr. Harsimrut Kaur, Asst. Professor (Biochemistry) Ph.D

12+ years of experience. Core areas of research include Clinical Biochemistry & Molecular Oncology to explore the molecular basis of genetic alterations and transcriptional profiling of genes associated with cervical cancer. Awardee of D5T-Women Scientist Fellowship under WOS-A Scheme.



Dr. Anindita De, Asst. Professor (Chemistry)

Four years of teaching experience.

Research interest: Synthesis, characerization and uses of transition metal complexes with novel ligands.



Mr. Paratpar Sarkar, Asst. Professor (Biochemistry)

He has experience of 10 years and his teaching area are Enzymology, Biomolecules, Genetics, Hormonal Biochemistry, Membrane Biochemistry, Metabolism.



Dr. Richa Tomar, Asst. Professor (Chemistry)

Total 4 years of teaching experience and 6 years of research experience. Ph.D from Delhi University on Synthesis and Characterization of Complex Perovskites to study their electrical properties.



Dr. Vivek Srivastava, Asst. Professor (Biochemistry) M.Sc., Ph.D

9 years of research experience in the areas of Cancer Biology (telomere biology), Post-translational modification on proteins, Protein Biochemistry, Molecular Biology, DNA damage response pathway, etc.

OSBSR BROCHURE 2018

FOCUS ON ORGANISING MAXIMUM EVENTS

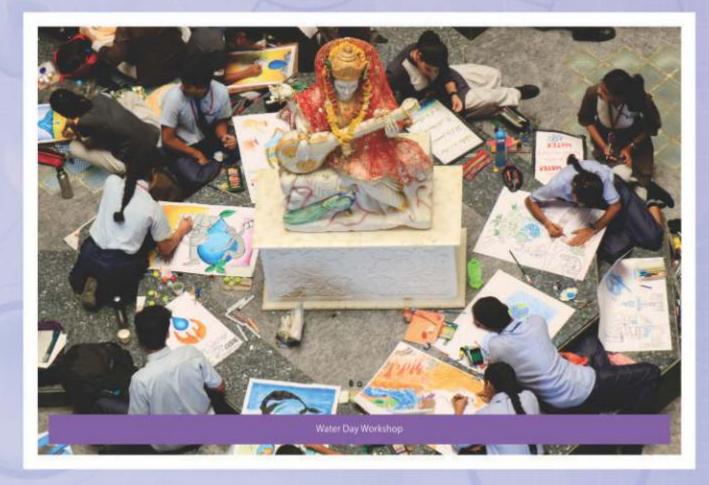




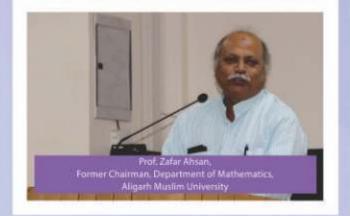












RIGHT ENVIRONMENT FOR FUTURE SCIENTISTS

Sharda University campus combines modern teaching and study spaces on 63 acres of landscaped greenery. At Sharda, you can study in a clean, healthy environment that combines the benefits of an active global lifestyle with the resources of an international University.

When you want to work together and make new friends you'll find yourself in a welcoming community filled with people from over 74+ countries. Our campus includes academic support, accommodation, sports, culture and entertainment-everything you need.





Discover multi-cuisine outlets on campus



indoor games

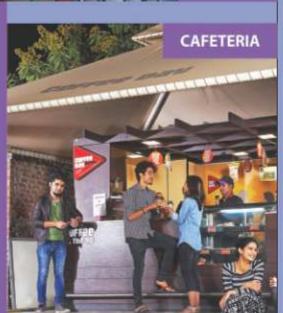
activities in auditoriums

Stay connected 24x7

through seamless

Wi-Fi network







FITNESS CENTRE

STUDENT & FACULTY DOING EXPERIMENT









SCIENCE PROGRAMMESDESIGNED FOR SUCCESS

School of Basic Sciences & Research programmes are designed to develop science professionals focussed on doing innovative research for the benefit of mankind. Students are trained to make the most of the opportunities in prestigious organisations like ISRO, DRDO, BARC, CSIR, DST, MOES among others.

PROGRAMMES OFFERED BY

SCHOOL OF BASIC SCIENCES & RESEARCH

UG PROGRAMMES

B.Sc. (Hons.)-Agriculture B.Sc. (Hons.)-Physics

B.Sc. (Hons.)-Chemistry B.Sc. (Hons.)-Mathematics

B.Sc. (Hons.)-Biochemistry B.Sc. (Hons.)-Botany

B.Sc. (Hons.)-Zoology B.Sc. (Hons.)-Biotechnology

B.Sc.-Food Science and Technology B.Sc.-Microbiology

PG PROGRAMMES

M.Sc.-Chemistry (Organic Chemistry, Inorganic

Chemistry, Physical Chemistry, Material Science)

M.Sc.-Mathematics

M.Sc.-Biotechnology

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AU STATE

M.Sc.-Physics (Material Science, Electronics & Medical Science)

M.Sc.-Microbiology

M.Sc.-Food Science and Technology

M.TECH. PROGRAMMES

M.Tech.-Energy and Environmental Engineering

M.Tech.-Nano Science & Technology

Ph.D PROGRAMMES

Ph.D in Chemistry

Ph.D in Mathematics

Ph.D in Environmental Science

Ph.D in Life Sciences

Ph.D in Agricultural Science

Ph.D in Physics

Ph.D in Nano Science & Technology

Ph.D in Material Technology

Ph.D in Space Science





The B.Sc. (Hons.) Agriculture degree programme of the multi-faculty Sharda University is conducted by the Department of Agriculture and supported by the faculties and facilities of a number of other Departments including Basic Sciences, Biotechnology, Microbiology, Food Science, Engineering, Economics, Business, Languages, Law, Sociology etc. This programme is aimed at producing job oriented, well trained, groomed and motivated human resource for various agricultural, horticultural and allied sectors. This programme is an amalgam of several relevant branches of science and technology. It is one of the courses that is gaining greater significance in the present era of globalization, because of the necessity to boost agricultural production and profitability through new and innovative technology. Agriculture is vital for global economics, particularly for India being traditionally an agrarian economy, it shall always remain relevant and provide ample job opportunities with diverse profiles.

COURSE DETAILS

B.Sc. (Hons.) Agriculture is a 4 years professional bachelors degree programme designed to acquaint the students with various facets of agriculture, horticulture and allied specializations. The curriculum includes 180 credit hours of theory, practical and on-farm projects over eight semesters; visits and hands-on experience in the laboratories, soil-less cultures, protected cultivation systems, experimental plots and farms within and outside the university in peri-urban, rural and industrial settings. The curriculum is based on the recommendations of the 5th-Deans' Committee approved by the Indian Council for Agricultural Research (ICAR) for all the agricultural universities of India. It includes courses related to use of modern scientific instruments, machinery and techniques in plant and animal based farming systems, land surveying, soil and water resource management, land animal, fish and poultry management, basics of biotechnology, sociology, economics, agribusiness, extension etc.

The focus of this programme is on training the students to understand, solve problems and improve agricultural productivity, manage processes & products and to prepare them for higher education and fundamental and mission



oriented applied research in India or abroad with a thrust on evolution of bio-safe and eco-friendly high value agricultural production systems.

CAREER PROSPECTS

Since agriculture is also an international necessity for sustenance and quality of life besides economics, agricultural science and practice are expected to never run out of relevance and job opportunities. The course curriculum and training imparted in this programme are based on the national curriculum approved by ICAR and is relevant nationally and internationally. This ensures that the graduates will be eligible for higher education leading to Masters, Management and Doctorate degrees as well as for employment as managers/officers/technicians in various Government and Non-Government institutions, including academics, research, fertilizer, pesticide or seed industry, modern skill-based farming, dairy, self-employment in agri-clinics, consultancy, agri-preneurships or in banking, forestry and administrative civil services, not only in India but also in most countries of SE-Asia, Africa, Middle-East and rest of the world.

Seats: 120 open to candidates from all parts of India and abroad. (Number of seats will be subject to change as per decision of the Admission Committee and Academic Council of the University)

Eligibility: Minimum 50% marks of equivalent grade in 10+2 with Physics, Chemistry, Biology with or without Mathematics (PCB/PCMB)

Admissions: Once in the year for academic session starting July, based on merit in entrance test conducted by the University. SUAT or based on rank in the AIEEA for UG conducted by the ICAR, New Delhi.



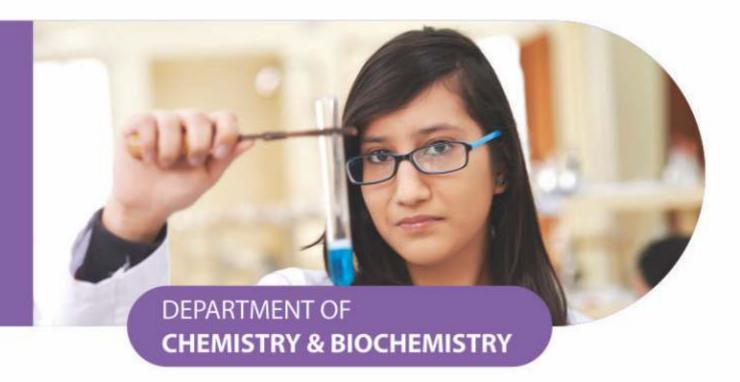












The Department of Chemistry endeavors to be a nationally recognized model for educating and graduating students prepare to compete & contribute to the ever changing technology of 21st century. To achieve this vision the Department is committed to provide an excellent teaching & learning atmosphere for Under Graduate as well as Post Graduate students. The Department of Chemistry has excellent infrastructure with quality class rooms, world class laboratories and outstanding research competence.

Faculty members of the Department are engaged in high quality cutting edge research activity in the forefront areas of chemistry such as chemistry of multidentate hybrid ligands, development of organometallic bioactive compounds, nanomaterials for photovoltaic devices and conjugated macrocycles and macrocycles for sensor applications, organic synthesis, inorganic compounds, composites and synthetic polymers, cement chemistry, eutectic mixtures, water remediation, photocatalytic oxidation of various organic compounds. Research activity by individual faculty members further enhances the teaching capabilities and makes the teaching learning process highly interactive and practical. Currently, department is working on three research projects sponsored by Ministry of Micro, Small and Medium Enterprises (MSME), Government of India.

PROGRAMMES OFFERED

- · B.Sc. (Hons.) Chemistry
- B.Sc. (Hons.) Biochemistry
- · M.Sc. in Chemistry with specialization in
- Organic Chemistry
- Inorganic Chemistry
- Physical Chemistry
- Material Science
- Ph.D in Chemistry

CAREER PROSPECTS

- ISRO, DRDO, BARC, CSIR, MOES & their sisters laboratories
- Pharmaceuticals (R&D)
- Polymer industry
- Forensic laboratory
- · Quality control and quality assurance company
- Various manufacturing industries

LABORATORIES

- Instrumental analytical facility (FTIR & UV-Visible spectrophotometer)
- Chemistry Lab-1
- Chemistry Lab-2
- Chemistry Lab-3



LISTOFELECTIVES

Generic Electives (GE)

- Mechanics & Properties of Matter/Biophysics (Term 1)
- Foundation Course in Mathematics/Introduction to life Science (Term 1)
- Physics Lab-1/Biological Science Lab-1 (Term 1)
- Applied Mathematics-1/Biostatistics (Term2)
- Optics/Biomolecules (Term2)
- Physics Lab-2/Biological Science Lab-2 (Term 2)
- Solid State Physics/Cell Biology (Term 3)
- Physics Lab-3/Biological Science Lab-3 (Term 3)

Department Specific Electives (DSE)

- Chemical Kinetics and Catalysis/Solid state chemistry (Term 4)
- Selected topics in inorganic chemistry/Bio-inorganic Chemistry (Term 5)
- Chemistry of Polymers/Chemistry of synthetic drugs (Term 6)
- Research Project/Dissertation in B.Sc. (Hons.)-2 semesters
- Research Project/Dissertation in M.Sc. (Hons.)-2 semesters

SKILL ENHANCEMENT COURSES

- · Functional English
- Problem solving through C++
- · Functional English Lab
- · Problem solving through C++ Lab

PROJECTS/WORKSHOPS/CONFERENCES (NATIONAL & INTERNATIONAL)

- A project on Development of Light Emitting Diodes (Rs. 8.00 Lakh) funded by MSME, Govt of India
- A project on Antibacterial Nanomaterial Embedded Fabrics for Medical Applications (Rs 6.80 Lakh) funded by MSME, Govt. of India
- A project Biodiesel production from waste vegetable and nonedible oils using nanoparticle catalyst for commercial purpose (Rs. 7.15 Lacs) funded by MSME, Govt. of India
- Quiz Series for preparation of UGC-NET exam for PG student (30th March 2016)
- Special invited lecture for UG and PG students on Chemistry Lab Safety and Fire Fighting (08th March 2016), "Let's Dream for Successful Carrier Ahead"—Career Counseling (05th Feb. 2016), How to Write a Research Paper (29th Sept. 2015)
- Industrial visit to Chemsys Limited (12th Feb.2016)
- Training programme on Chem-Draw (09th Oct. 2015)
- National Conference on Drug Designing (27-28th March 2015)
- Workshop on patent, intellectual property rights and ethics (21st March 2015)
- First Chemistry-In-House symposium (GHS-2018), 20th April, 2018

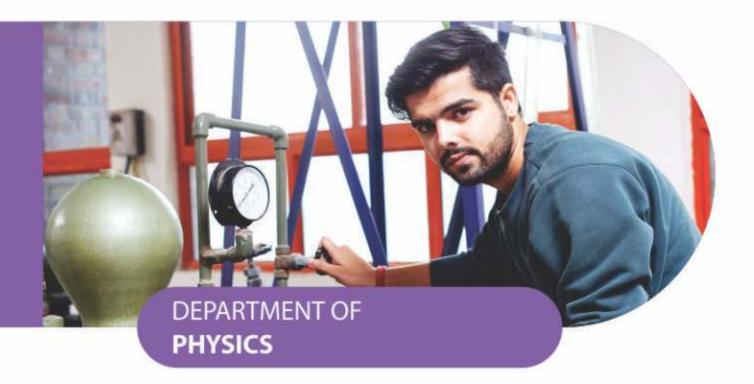












At Sharda University, we have designed various courses of different programmes of Physics in such a way that it will make students learn Physics and make career options through it very easily. The Department offers B.Sc. (Hons.), M.Sc., M.Tech. and Ph.D programmes in major branches of physics like Materials Sciences, Electronics and Nano Technology. We have well equipped laboratories with state-of-the-art facilities so that students can appreciate and complements their classroom knowledge. Our laboratories fit in the class of international standards. Apart from this, we have a dedicated cell to support and guide students for various competitive exams.

The faculty members have been actively pursuing research in important areas like conducting polymers and device applications, thin film deposition, atmospheric aerosols, remote sensing technology, nano-physics, Solar cells, Dye sensitized solar cells, Feromagnetic materials, Super capacitors etc. The Department is presently running many research projects sponsored by various agencies like DST, DRDO, and MSME. The Department has a separate well equipped research laboratory for the research activity.

PROGRAMMES OFFERED

- · B.Sc. (Hons.) in Physics
- M.Sc. in Physics
- M.Tech. in Nano Science and Technology
- · Ph.D in Physics

CAREER PROSPECTS

- Scientists in ISRO, DRDO & BARC
- Scientists in CSIR Labs
- Wipro and other IT industries
- SSC/UPSC/UPPSC

LABORATORIES

- Physics lab with dark room for Science graduate and post graduate students
- Physics lab with dark room for Engineering graduate students
- · Electronics lab
- · Nuclear Physics lab
- Material Research lab for M.Tech. and Ph.D research scholars



MATERIALS SCIENCE LAB

The objective of the Materials Research Lab is the development of novel solid state ionic materials and its device application. The materials of choice for electro-chemical device application are solid-solid composites, fabrication of quantum dot sensitized solar cells, dye sensitized solar cells, thin films, polymer electrolytes and ionic liquids. The main aim in MRL, Sharda University is mainly focused around the development of materials stated above and their successful application on various electrochemical devices in particular on Quantum dot sensitized solar cells (QDSC), dye sensitized solar cell (DSSC) and lon beam polymer interaction.

ELECTIVES

- · Smart Materials and Devices
- Nano Sciences and Technology
- Applied Optics
- Hydrogen power and fuel cells

PROJECTS/WORKSHOPS/CONFERENCES

- Fabrication of all solid photo-electrochemical solar cells using polymer electrolytes (Rs. 3.0 Lacs plus salary of PI) sponsored by AICTE
- Development of nano porous TiO2 electrode and modified solid polymer electrolytes for Dye Sensitized Solar cells (DSSC) (Rs. 18.14 Lacs) sponsored by DST
- Development Of High Dielectric Constant Polymer Composite For Pulsed Power System (Rs. 7.0 Lacs) sponsored by DRDO
- Effect of Swift Ion Beam On Polymer Electrolyte Films (Rs. 34.5 Lacs) sponsored by DST
- Development of large area Dye Sensitized Solar cells (DSSC) using modified solid polymer electrolytes (Rs. 28.0 Lacs) sponsored by DST
- Design & Development of Filters (Rs. 8.0 Lacs) sponsored by MSME
- Prototype development of Super Capacitor (Rs. 8.0 Lacs) sponsored by MSME
- · National Conference on Technologically Important Materials
- · National Conference on Futuristic Materials
- National Conference on Semiconducting Materials and New Devices
- · National Seminar on Functional and Smart Materials
- National Conference on Multifunctional Materials, Energy and Environment
- International Conference on Science & Engineering of Materials
- National Conference on Advanced Materials
- · One Day Seminar on Smart-Materials
- · National Conference on Functional Materials
- Workshop on Patent, Intellectual Property Rights and Ethics
- · Workshop on Computer Interfaced Physics Experiments
- DST-inspire science camp
- · National workshop on thin film deposition techniques
- Sharda inspired Science camp for nearby school children
- Workshop on super capacitors
- International conference on science and engineering of materials
- International symposium on computational sciences

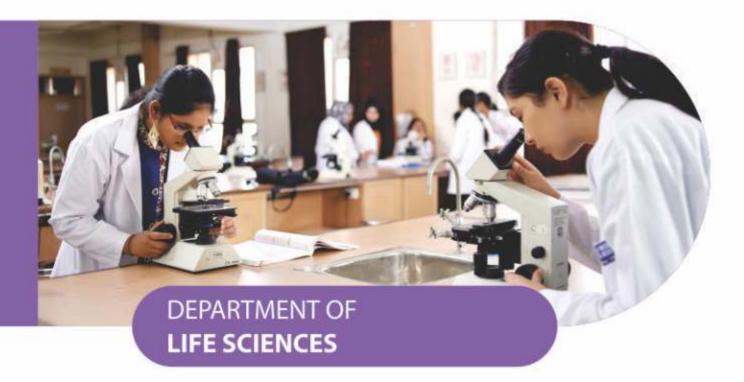












The Department is housed in a newly constructed building consisting of class rooms with audio visual facilities, well equipped laboratories and research facilities.

Our courses are in tune with Industry requirement and also higher studies.

The Department has a very strong research team which further strengthens the teaching programme. The students and the faculty have been contributing to high quality research in the front line areas of Biotechnology.

PROGRAMMES OFFERED

- B. Sc. (Hons.) in Biotechnology
- . B. Sc. (Hons.) in Food Science and Technology
- M. Sc. in Biotechnology
- M.Sc. in Microbiology
- M. Sc. in Food Science and Technology
- · Ph.D in Biotechnology

CAREER PROSPECTS

- · Pharmaceutical (R&D) Industry
- Diagnostic Laboratories
- Hospitals
- Food & Brewery Industry

LABORATORIES

The Department has following five well equipped laboratories catering to the need of courses

- Cell and Molecular Biology Lab.
- Microbiology Lab.
- Plant Growth Chamber.
- · Virology Lab.
- · Biochemistry & Enzyme Engineering Lab.

Other than that the Department also has an experimental garden and an animal house for in-vivo experiments.



ELECTIVES

- Nutritional Biochemistry
- Microbial Physiology
- · Virology
- · FermentationTechnology
- Cell Signalling
- Cancer Biology
- Advances in Metabolic and Enzyme Engineering
- FermentationTechnology
- Cancer Biology
- · Protein Engineering

PROJECTS/WORKSHOPS/CONFERENCES (NATIONAL & INTERNATIONAL)

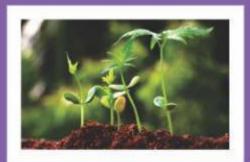
- At present three projects funded by Government agencies like DBT &INSA are running in the Department.
- Many of our students have qualified UGC-CSIR NET and GATE and are now working in industry or have enrolled in higher degree programme in India and abroad.
- The Department organizes Industry Academic meet annually to prepare the students for the requirement of industry.
- Hands-on-training/Workshops are organized in the Department frequently to update the students in modern techniques.
- Department also organizes scientific talk by eminent scientist from India and abroad time to time.
- A workshop on "Intellectual Property Rights" was organized in the Department of Biotechnology, on 4th April, 2015.
- Hands-on-training on "PCR Approaches in Molecular Diagnosis" was held on March 4 & 5, 2016 in collaboration with Pioneer Centre of Biosciences for Advanced Training and Centre, Ghaziabad.
- A Seminar on "Impact of Emerging Biotechnologies" was held by the Department of Biotechnology, Sharda University on 25th August, 2016 under the aegis of SET and SBSR.
- Department of Biotechnology, organized a guest lecture by Dr. Hellen Collin, Vice-Dean for Postgraduate Study in the Faculty of Life Sciences & Medicine at Kings College London, on 16th November, 2016
- A training was organized on Internal Auditing in Food industry in collaboration with National Institute of Training for standardization, Bureau of Indian Standards, on 21st and 22nd April, 2017.
- A guest Lecture was held on 23rd Aug, 2017, on the topic "Nanoscience, Nanofabrication and Organic-Nano Electronics: A Golden Opportunity for the Electronic Device Industries".
- A national conference on "Recent Advancements in Biotechnology And Bioengineering" was held on November 2-3, 2017.
- An industrial visit to Coca-Cola Company, Sahibabad Plant was organized on 11th October 2017.
- An industrial visit to Mother Dairy, Patparganj was organized on 13th October 2017.













The Department was working under Applied Sciences since 2009 primarily to offer Environmental Science course compulsory for students in undergraduate courses. With increasing popularity and need in present time for environmental experts, the Department started offering M. Tech. in Energy and Environmental Engineering in 2010 with objective to give professionals with expertise in various aspects of environment. The Department of Environmental Science came into existence with the formation of new school namely School of Basic Sciences and Research (SBSR) in August 2013. Apart from a post graduate course the Department offers Ph.D. in Environmental Science. The Department is having good research programmes funded by national and International agencies and offering the fellowships (JRF/SRF/RA) to 6 students through these founding's. The Department is one of the pioneering private departments involved in the glaciological research with its own observatories in the high Himalaya (on the glacier site).

Department of Environment possesses a well-equipped laboratory named Environment and Water Resource Laboratory. The laboratory has several instruments needed for physico-chemical analysis of water and wastewater. In addition, it has working space in which more than five full time Ph.D students and project staffs are working. The main areas of ongoing research in Environment and Water Resources Laboratory includes: Physico-chemical analysis of water and wastewater, Air pollution, Himalayan Glaciers melt water chemistry, Glaciohydrological Modelling, Meteorological studies, Air pollution modelling, Remote sensing and GIS etc.

PROGRAMMES OFFERED

- M.Sc. in Water Resources & Environment Management
- · M. Tech. in Energy & Environmental Engineering
- Ph.D in Environmental Science

CAREER PROSPECTS

- Pollution control board agency
- Climate change agency
- · Environmental forecasting
- · Remote sensing organizations

LABORATORY

Environmental Science Laboratory



PROJECTS/WORKSHOPS/CONFERENCES (NATIONAL & INTERNATIONAL)

- Faculty Coordinator "SANLAYAN 2013-a Talent Hunt" programme of Sharda University organised on November 16, 2013 at Sharda University, Greater Noida, India
- International Conference on "Multifunctional Materials Energy and Environment" held during August 21-23, 2013 at Sharda University, Greater Noida, India
- "Workshop on Positive Degree Day Modelling of Glaciers" during 28th -29th September, 2012 at Sharda University, Greater Noida, Funding Agency: South Asia Water Initiative (SAWI), Abu Dhabi Dialogue Knowledge Forum, Small Grants Programme (ADDKFSGP)
- "National Conference on Semiconducting Materials and Nano Devices", during September 14-15, 2012, RTDC, Sharda University, Greater Noida, India
- "National Seminar on Futuristic Materials for Device Applications" on July 27, 2012 organised by Research and Technology Development Centre, Sharda University and Sponsored by Defence Research and Development Organization, New Delhi

ENVIRONMENTAL AWARENESS EVENTS

- Exhibition on Sustainable Development using waste materials and hand made products during 9th CMS Vatavaran International Environment and Wildlife Film Festival and Forum, November 2-6, 2017, at Smriti Van, Rajghat, Delhi.
- "Water Conservation-2017"- A workshop held on 13th October, 2017 at Sharda University, Greater Noida.
- "Earth Day- 2017" on 22nd April, 2017 at Sharda University, Greater Noida, Funding Agency: Ministry of Earth Sciences, Govt. of India
- "Earth Day- 2016" on 22nd April, 2016 at Sharda University, Greater Noida, Funding Agency: Ministry of Earth Sciences, Govt. of India
- "Save Water Save Life- 2015" held on 30th September, 2015 at Sharda University, Greater Noida, Funding Agency: Sharda University
- "Earth Day- 2015" held on 22nd April, 2015 at Sharda University, Greater Noida, Funding Agency: Sharda University
- "Earth Day-2013" on 22nd April, 2013 at Sharda University, Greater Noida, Funding Agency: Ministry of Earth Sciences, Govt. of India
- "Earth Day- 2011" on 22nd April, 2011 at Sharda University, Greater Noida, Funding Agency: Ministry of Earth Sciences, Govt. of India

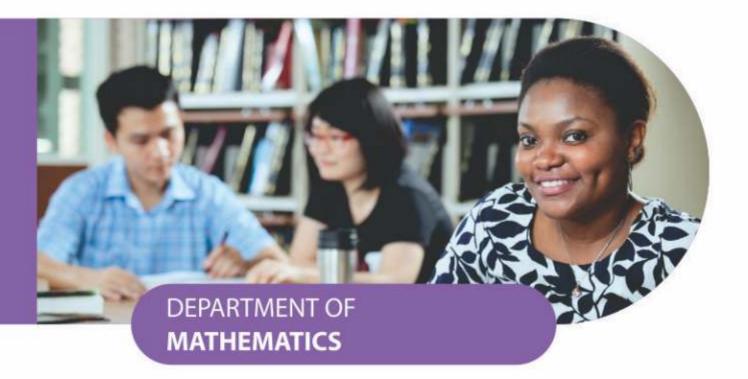












Mathematics is the language of Science; bare nature of Science. To express concisely and precisely any information in Science, the logic and reasoning akin to Mathematics along with its concepts and structures is a must. Department of Mathematics runs undergraduate and post graduate courses in SBSR and also support the programmes of other schools such as School of Engineering & Technology (SET), School of Business Studies (SBS) and School of Nursing Science and Research (SNSR). There are 12 faculty in the department. There are number of specializations in the department such as Number Theory and Cryptography, Numerical Analysis, Graph Theory, Fluid Dynamics, Functional Analysis, Operations Research and Special functions. Research work is also carried out in these areas. A strong group is working in Wavelets and inverse problems. Three students have received Ph. D. Degree and three students have submitted their thesis in the last four years. Presently five students are working.

For B.Sc. (Hons.) in Mathematics, a balanced syllabus with importance given to both pure and applied Mathematics is used. For M.Sc. Mathematics, choices of specialization are (i) Number Theory with Cryptography (ii) Fluid Dynamics (iii) Differential Geometry and Tensor Analysis. We have a total 90 students in our undergraduate programme and 16 students in the PG programme.

Most of our earlier batch students are either engaged currently in Ph.D programme or working in academic fields abroad. The areas where our students can be employed range from software development jobs to academicians in reputed institutions.

PROGRAMMES OFFERED

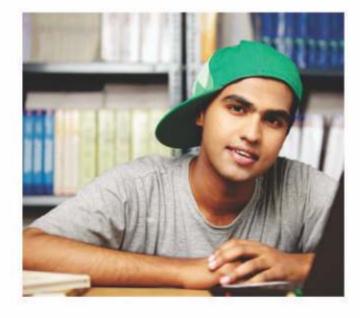
- B.Sc. (Hons.) in Mathematics
- M.Sc. in Mathematics
- · Ph.D

ELECTIVES

- · NumberTheory and Cryptography
- MeasureTheory
- Applied Statistics
- Advance Computing
- Data Mining
- · Analysis of Experiment

CAREER PROSPECTS

- Accountancy & Professional Service
- · Banking-Retail Banking
- Computing & IT



- · General Management
- Statistical Research
- · Operational Research
- · Engineering Sciences

LABORATORIES

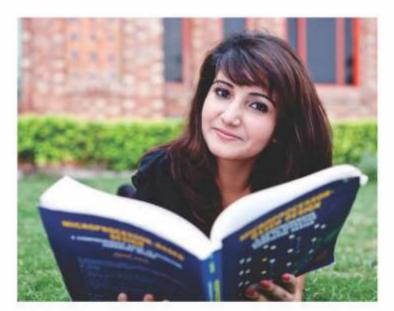
The Department has laboratories equipped with the basic and modern computing facilities which include advanced software such as MATLAB & SPSS.

WORKSHOP/CAREER GUIDANCE PROGRAMME / SEMINARS

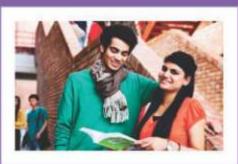
- Pravesana 2017, A Matlab Workshop. Organized on 12th-13th October 2017.
- Two Expository Lecture by Prof Zafar Ahsan (AMU) on 25th September 2017.
- Career Guidance Lecture "Who's Cup of Tea" by Mr. Rajendra Dubey (Director, DIPS Academy) on 9th October 2017.
- International Symposium on Computational Science and its Application, 5th-6th Feb, 2018.
- An Event in Memory of Ramanujan organized by Department of Mathematics on 30th-31st, 2018.

FOLLOWING INTERNATIONAL ACADEMICIANS HAVE VISITED IN THE DEPARTMENT OF MATHEMATICS, SBSR AT SHARDA:

- Prof. Pavel Exner (President, European Mathematical Society).
- Prof. G. Leugering (Vice president, Friedrich-Alexander University, Germany).
- · Prof. Stephane Jaffard (University of Paris, East, France).
- Prof. M. Shahjahan (Memphis University, USA).
- Prof. H. Feichtinger (Vienna University, Austria).
- Prof.T. Khan (Clemson University, USA).
- · Prof. R. Lozi (Nice University, France).
- Dr. Damienne Provitolo (Permanent Researcher CNRS, Nice, France).













VIEWS THAT SPEAK EXCELLENCE



Ms. Sleshi Leel (B.Sc. Mathematics)



Mr. Abdulaziz Garba Ahmed

Research Assistant Fellow, National Mothematical Centre Abuja, Nigeria. Earning 1.3 million Niara. The teaching and learning at Sharda University is excellent and comparable to the international



Mr. Dushyant Pratap Singh Rathore
B.Sc. (Hons.) Physics
Everybody needs a support to push himself. My
support was the faculty of SBSR. They provided me
the right platform and guided me throughout, and
yes!made.it to Wipro.



B.Sc. (Hons.) Physics I feel so blessed to be a part of this institution. This University has been more than a family to me, with its well-versed faculties and friends with whom I share an overwhelming bond.





Mr. Shaan Naqvi B.Sc. (Hons.) Physics Higher Studies at BHU.



Mr. Raghvendra B.Sc. (Hons.) Physics Pursuing Integrated Ph.D from S.N. Bose National Centre for Basic Sciences.



B.Sc. (Hons.) Physics Selected in SSB Coastal Guard examination.





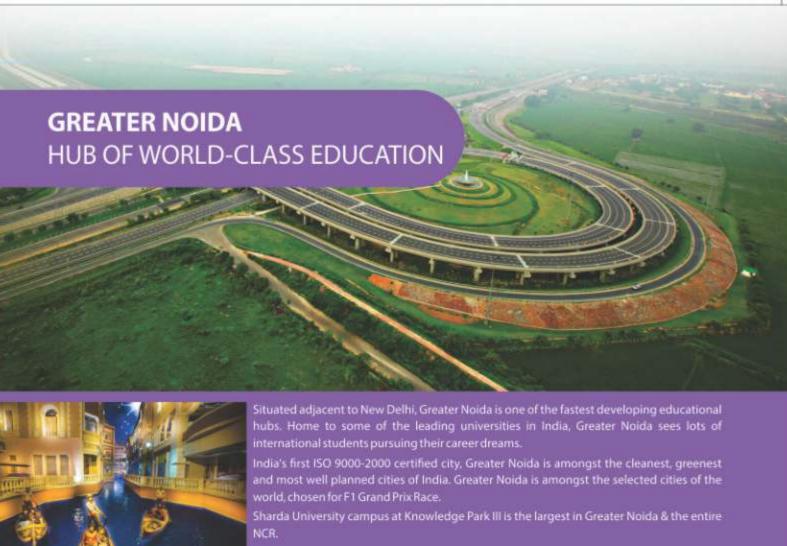
Mr. Deepak Kumar Singh
M.Sc. Chemistry (Organic)
I feel so lucky to be part of Sharda University. I have learnt a lot of moral and ethical values. This has helped me a lot in getting a placement in Jubilant Chemsys as Trainee Research Associate. I am very thankful to all the faculty members and my friends.



Currently I am placed in Jubilant Chemsys Limited in the Synthesis Department with the package of Rs. 2.5 lakh per annum while I was pursuing M.Sc.



Mr. Rahul Pandey
M.Sc. Chemistry (Organic)
Everyone needs a chance for their destiny and I really found mine at Sharda University. I am lucky to have got placement in Jubilant Chemsys.

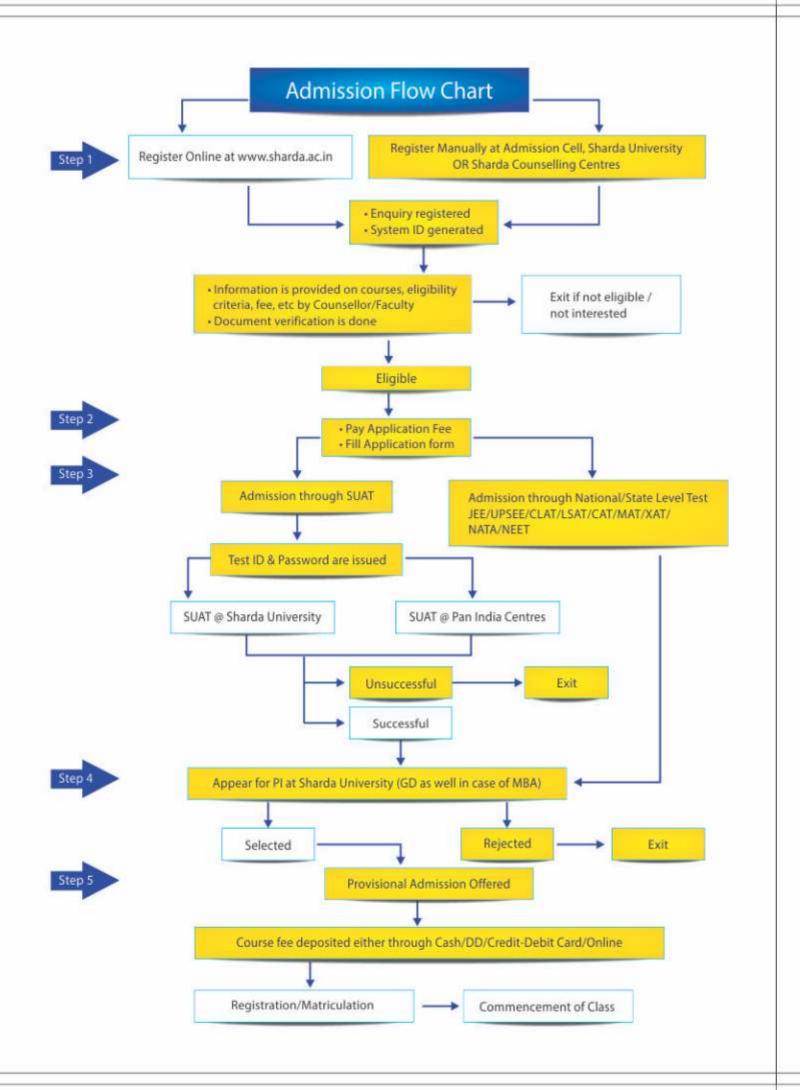












REGIONAL REACH



SHARDA UNIVERSITY CAMPUS

Plot No.32-34, Knowledge Park III,

E-mail: admission@sharda.ac.in

+91-120-4060210/11, 4570000

Plot No.32-34, Knowledge Park III,

SGI ADMISSION CELL AT AGRA

500 mtrs. From Bhagwan Talkies,

E-mail: admission@sharda.ac.in

SHARDA COUNSELLING CENTRE,

SHARDA COUNSELLING CENTRE,

Complex, Circular Road, Ranchi-834001 E-mail: admission.ranchi@sharda.ac.in

SHARDA COUNSELLING CENTRE,

Near St. Francis College, Hazratganj,

Sikka House, 1st Floor, 6 La Place Bungalows,

E-mail: admission.lucknow@sharda.ac.in

Shop No. 106, 1st Floor, Le Desire

M-11, South Extension, Part-II,

towards Mathura on Agra-Delhi (NH-2)

Greater Noida, UP-201310

+91-120-4060224/27

SGI Tower

Agra-282002

NEW DELHI

RANCHI

+91-9205883459

LUCKNOW

Lucknow-226001

+91-9205883451

New Delhi-110049 +91-11-2626 2992/3

+91-0562-4056900

E-mail: global@sharda.ac.in

INTERNATIONAL ADMISSION CELL

Greater Noida, UP-201310









SHARDA COUNSELLING CENTRE, PATNA

2nd Floor, I G Complex, West Boring Canal Road, Patna-800023 E-mail: admission.patna@sharda.ac.in +91-612-2541030, +91-9205883453

SHARDA COUNSELLING CENTRE, KOLKATA

Chatterjee International Centre, Room No. A1, Chamber No. 9, 16th Floor, 33A Jawaharlal Nehru Road, Kolkata-700071 E-mail: admission.kolkata@sharda.ac.in +91-9205883455

SHARDA COUNSELLING CENTRE, GUWAHATI

H. No. 3, Ground Floor, Hanuram Boro Path, G.S. Road (Opp. Passport Seva Kendra), Walford, Guwahati-781005

E-mail: admission.guwahati@sharda.ac.in +91-9205883450, +91-8826998009

SHARDA COUNSELLING CENTRE, ITANAGAR

3rd Floor, Yaki Building, Opposite Lagy Complex, Bank Tiniali, Itanagar-791111

E-mail: admission.itanagar@sharda.ac.in +91-8448897663, +91-9205883450

SHARDA COUNSELLING CENTRE, DEHRADUN

A-22, 1st Floor, Meedo Plaza, 26 Rajpur Road, Dehradun-248002

E-mail: admission.dehradun@sharda.ac.in +91-9205883454

SHARDA COUNSELLING CENTRE, HYDERABAD

UBAS Corporate Business Services, 302, 3rd Floor, Babukhan Estate, Basheerbagh, Hyderabad-500001

E-mail: admission.hyderabad@sharda.ac.in +91-9205883452





















