#SoWhereAreYou?

SHARDA UNIVERSITY
Beyond Boundaries

SHARDA UNIVERSITY CAMPUS
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SHARDA GROUP

SGI | SHARDA HOSPITAL SCHOOL OF MEDICAL SCIENCES & RESEARCH | SHARDA TECH | SHARDA LAUNCHPAD | MAXWELL BIOTECH | RSPL

ShardaUniversity | sharda_uni | sharda_university | sharda-university | shardauniversity

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SHARDA UNIVERSITY
Beyond Boundaries

MAKING EDUCATION WORK

FOR ENDLESS POSSIBILITIES IN

BASIC SCIENCES & RESEARCH

SCHOOL OF BASIC SCIENCES & RESEARCH

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SHARDA GROUP CAMPUSES

Established in 2009

Sharda University Greater Noida is India's truly global university which has seen students from 85+ countries experience a world-class campus life. Spread over 63 acres, Sharda University offers 216 programme/plans in a myriad of disciplines and an education experience matching with the very best. Students can pursue a semester at Sharda University Uzbekistan campus at the same fee in select programs.

Established in 2019

Sharda University Uzbekistan has been established under a special President decree in line with Sharda Group's commitment to offer global standard education to every individual. It is the first independent private university in Fergana valley that is being envisioned to become the gateway for students from Eurasia.

SHARDA IS
RANKED 5TH
IN INDIA
in the number of patents granted

As per India Today issue dated 10th August, 2020

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SHARDA UNIVERSITY

Experience the joy of being a part of India's truly global university

14 MULTI-DISCIPLINARY SCHOOLS
Schools of Engineering, Management, Law, Architecture, Medical, Dental, Nursing, Pharmacy, Allied Health, Basic Sciences, Agriculture, Media, Film & Entertainment, Education and Humanities & Social Sciences.

1,200+ FACULTY WITH GLOBAL EXPERIENCE
Students learn from distinguished faculty from USA, UK, Greece, Singapore, Japan, Russian Federation & India among others.

UPTO 100% SCHOLARSHIP. 2549 STUDENTS STUDYING WITH SCHOLARSHIP AND FREESHIP WORTH RS.19.27 CRORE
Scholarships include Academic, SGI, Defence, Sibling, Art & Culture, Sports & Innovation Scholarship

MULTIPLE AVENUES FOR RESEARCH
Students do live projects in collaboration with top institutions like DRDO, MSME, DST, DBT, INSA and USAID.

OPPORTUNITY TO LAUNCH STARTUPs
100% Scholarship and Rs.10 lac seed money is offered for Student StartUps through various programmes like Next StartUp, Syncubator and Xcelerator.

LEADING THE WAY IN EMPOWERING WOMEN THROUGH EDUCATION
Delhi-NCRs only University with 44% female students

Rated by

Accredited by

National Assessment and Accreditation Council

Awarded

SHARDA UNIVERSITY
QS I-GAUGE 2020

Rated by

Awarded

Sharda University has over the years become one of the leading centres of education, research and innovation in Delhi NCR region. Established through an act of State Legislature of Uttar Pradesh (14 of 2009), Sharda University offers over 216 UGC recognised programme/plans in various disciplines. It's a part of the renowned Sharda Group with operations in areas like Education, Healthcare and IT.

Being the only global university in India that has seen students from 85+ countries experience world-class facilities, and having 250+ global academic partnerships, Sharda University offers a truly international learning environment. That's why it says, **"The World is Here, Where are You?"**

AMONG
TOP 10 PVT. UNIVERSITIES IN NORTH INDIA
(BAND A+ BAND B) for achievements in innovation
As per ARIIA rankings 2020 by the Govt. of India

Discover Why Top Corporates & Educational Institutions like BHU, Jubilant Chemsys, Wipro prefer to select Sharda Students

1 **FUTURE** focussed learning in science

2 Focus on **OUTCOME** based education

3 Foreign **LANGUAGE** for the global edge

4 Unique **CHOICE** Based Credit System

5 **MAXIMUM** industry interaction

6 Encouragement to StartUps through Sharda **LAUNCHPAD**

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.

Key Facts & Figures

- One of the leading Schools for Basic Science & Research in Delhi NCR.
- All faculties are Ph.D. holders from reputed institutions.
- Well equipped laboratories and research facilities.
- Research in areas like conducting polymers and device applications, thin film deposition, atmospheric aerosols, glaciology, remote sensing technology, nano-physics, Solar cells, Dye sensitized solar cells, Feromagnetic materials, Super capacitors etc.
- Many research projects sponsored by various agencies like DST, DRDO, MSME, MOES, ISRO, USAID.
- On-campus separate area for crop cultivation and doing agri-based research.
- Best student faculty ratio of 1:15.
- Focus on participation in various science competitions across the globe.

CENTRE FOR ADVANCED RESEARCH IN APPLIED MATHEMATICS AND PHYSICS

- Supported by Dr. Nadeem Akhter Tarin, internationally renowned philanthropist and industrialist
- Research fellowship of Rs. 30,000 per month for Ph.D. scholars

Uniqueness Which Fuels Ambitions

School of Basic Sciences & Research offers a unique global environment with students from different countries and continents studying in the same classroom. This gives students an opportunity to interact with and learn from their peers from other countries and to make long-term professional associations internationally.

SBSR strives hard to deliver high-quality research work, interactive learning and pursuit of excellence in teaching and learning.

Tie-up with 250+ leading global Universities for student exchange and research in various areas.

Seminars, workshops, conferences as well as special guest lectures are organized to garner the scope for interdisciplinary research in basic sciences. In such deliberations various stakeholders including industrialists, progressive farmers, bureaucrats and policy-makers are involved.

Separate library, laboratories, well-equipped classrooms, and workshops for hands-on training of the students.

The school has four research centres viz. Material Research Laboratory, Advanced Polymeric Materials Research Laboratory, Environmental Science Laboratory and Research & Technology Development Centre solely dedicated for carrying out research activities of government funded research projects.

The School has completed 07 Research projects worth Rs.163 Lakh + sponsored by Government agencies such as DST, DRDO, ISRO, MSME and World Bank. Currently, research projects worth about Rs. 175 Lakh funded by national and international agencies are in progress.

Glacio-hydro metrological process at Naradu Glacier, Fabrication of Soil & Photo-electrochemical solar cells, origin & development of filters, etc. are few of the current projects running in the campus.

The highly qualified and widely travelled faculty members at SBSR not only have the insightful experience but are also involved in R&D to devise new theories and adopt pragmatic approach.

Faculty That's Truly Inspiring

School of Basic Sciences & Research faculty comprises of Emeritus Professors, Professors and others who have been accorded prestigious national and international awards and fellowships in recognition of their outstanding scientific achievements. The School also regularly organises guest lectures to give new insights into new approaches to teaching.

"School of Basic Sciences & Research acts as a platform where the intellectual and creative attributes of future scientists are developed and enhanced. The School emphasizes upon the overall development of students so as to enable them to become effective leaders of tomorrow."

Prof. (Dr.) Shyamal Kumar Banerjee

Dean, SBSR and Professor (Mathematics)
Ph.D.

- Ph.D from Banaras Hindu University
- 34 years of Research and Teaching Experience
- 20+ Research Publications and author of 6 books
- Received Post-Doctoral Fellowship under the highly prestigious Homi Bhabha Professor's Fellowship, by BARC Mumbai
- Conferred with "Best Citizen of India Gold Medal Award" on the occasion of 68th Republic Day celebrations by the Global Economic Progress & Research Association.

DEPARTMENT OF MATHEMATICS

Dr. Khursheed Alam, Asso. Professor & HoD (Mathematics)
M.Sc, Ph.D.
Obtained M.Sc. and Ph.D degree in Mathematics from Jamia Millia Islamia. Associated with Sharda Group of Institutions (SGI), since July 2006. He has more than 12 years of teaching experience and research. His research area is Fractals using Wavelet, Image Processing, Non- Linear Dynamical Systems and Chaos Theory.

Dr. Varun Mohan, Associate Professor (Mathematics)
Ph.D.
Ph.D. from Dr. Bhim Rao Ambedkar University, Agra 2016. His main research field is in Mathematical study of fluid flow. He has many publications in UGC approved national journals, and conference papers to his credit. He has attended many FDPs, Conferences, seminars and workshops.

Dr. Mohd. Shahid Baboo, Asst. Professor (Mathematics)
M.Sc, Ph.D.
He has joined Sharda group of institutions in 2007. He did M. Sc in Mathematics from Jamia Millia Islamia, New Delhi. He qualified CSIR-NET. Recently, he has been awarded Ph. D degree in Mathematics from Jamia Millia Islamia.

Dr. Sweta Srivastav, Asst. Professor (Mathematics)
M.Sc, Ph.D.
She has 9 years of teaching experience and taught many under-graduate and post graduate courses of Mathematics including mathematical software. She has published 13 international and 4 national research paper. Presently, she is leading a research group in the field of Mathematical modeling and Graph theory in advance level.

Dr. Nidhi Sahni, Asst. Professor (Mathematics)
M.Sc, Ph.D.
She did her 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 major research project during her Ph.D. She is associated with Sharda University from September 2014.

Dr. Prem Shankar Jha, Asst. Professor (Mathematics)
M.Sc, Ph.D.
He has 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-Response".

Dr. Madhurima Dutta, Asst. Professor, (Mathematics)
M.Sc., Ph.D.
Dr. Madhurima has completed her M.Sc. and Ph.D. from the Department of Mathematics, Indian Institute of Technology Kharagpur. B.Sc. from Lady Brabourne college, University of Calcutta. Her research interest is system reliability, survival analysis, censoring, generating new distribution functions.

Ms. Priyanka Roy, Asst. Professor, (Mathematics)
M.Sc.
Ms.

Dr. U. V. Balakrishnan, Professor (Mathematics)
M.Sc, Ph.D.
Gold Medallist for M.Sc. (Mathematics), Calicut University in 1976. Ph.D. (Mathematics-Theory of Numbers) 1985, from TIFR. Bombay. 40 Years in Academic Field (Research & Teaching) (School of Mathematics, TIFR from 1976-1995). He has total more than 40 years of experience. His research area is Number theory and Cryptography.

Dr. Sangeeta Gupta, Asst. Professor (Mathematics)
M.Sc, Ph.D.
Obtained M.Sc. and Ph.D. Degree from Dr. B.R. Ambedkar University Agra. More than 15 years experience of teaching Mathematics at graduate and post graduate level. Her research area is Operations research and Optimization techniques.

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. 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. Richa Sharma, Asst. Professor (Mathematics)
M.Sc, Ph.D.
She did her M.Sc. in Mathematics from CCS University Meerut and obtained her Ph.D. degree from JIIT, Noida in 2015. She has 8 years teaching experience. She has specialization in Solid Mechanics and published many research papers in international journals.

Dr. Santosh Kumar, Asst. Professor, (Mathematics)
Ph.D.
Dr. Santosh Kumar has joined as Assistant Professor in the Department of Mathematics, School of Basic Sciences and Research, Sharda University in July 2019. He obtained his Ph.D. degree from Aligarh Muslim University, Aligarh in 2016. He has published many research papers in reputed Journal indexed in Scopus and have attended many conferences and workshops.

Dr. Prakash Kumar, Asst. Professor, (Mathematics)
M.Sc., Ph.D.
Dr. Prakash Kumar has completed his M.Sc. and Ph.D. from the Department of Mathematics, Indian Institute of Technology Kharagpur. He has completed his graduation from University of Delhi. He is NET qualified. His Research areas are flow through deformable porous medium, Mathematical modeling of applications in tissue engineering, biological soft tissues.

DEPARTMENT OF PHYSICS

Dr. Pramod K. Singh, Professor & HoD (Physics)
M.Sc, Ph.D.
20 years of teaching experience. Ph.D. (BHU, Varanasi) and Post-Doctorate from South Korea, Norway and Turkey. Reviewer of more than 30 International research journals. Published more than 150 research papers in international journals. Working on one project on Material Science (DRDO), Govt. of India.

Dr. Ashok Kumar, Professor (Physics)
M.Sc, Ph.D.
M.Sc. from IIT Kanpur and Ph.D. from Johns Hopkins University. Research experience at Massachusetts General Hospital, Harvard Medical School and at Stanford University. Heads the Sharda University Centre of Excellence for Artificial Intelligence in Medicine, Imaging & Forensics.

Dr. Mohit Sahni, Associate Professor (Physics)
M.Sc, Ph.D.
16 years of teaching and research experience. Published several research papers in National and International journals. Presented research papers in India and abroad. Reviewer of 3international journals. Research interests in ferromagnetic and ferroelectric.

Dr. Manish Sharma, Associate Professor (Physics)
M.Sc, Ph.D.
18+ Years experience in teaching and industrial research. Six Sigma Green Belt from Motorola University, USA. Published more than 6 patents. Published more than 20 SCI publications. Attended more than 25 National and International Conferences and Workshops. Innovation Award from the world's second largest Optical Media Group.

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. 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. Teena Jangid, Asst. Professor, (Physics)
M.Sc., Ph.D.
Ph.D. degree from Indian Institute of Science (IISc), Bangalore in 2020. She also worked as Research Associate at Indian Institute of Science (IISc), for 1 year before joining the Sharda university. Presented her research work in international Conferences held across the globe in Japan, USA and UAE.

Dr. R. C. Singh, Professor (Physics) & CoE
M.Sc, Ph.D.
More than 32 years of experience. Published more than 30 research papers. Conferred Bharat Vidya Shiromani Award, Pride of International Education Excellence Award during Indo-Nepal Friendship Summit at Kathmandu and Albert Nelson Marquis Lifetime Achievement Award 2017.

Dr. Ranjana Mehrotra, Professor (Physics)
M.Sc., Ph.D.
Ph.D from IIT, Delhi. She worked as Chief Scientist and head of Physics Mechanical Metrology Division at CSIR-National Physical Laboratory, New Delhi. More than 130 research papers in reputed journals and presented more than 250 papers in national and international conferences.

Dr. Munendra Singh, Associate Professor (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. Meenal Gupta, Asst. Professor (Physics)
D.Phil, Post Doctorate from Raman Research Institute, Bangalore
14 years' teaching and research experience, Published 23 research papers in international journal, 5 book chapters. Lifetime membership of International Liquid Crystal Society. Editor of SCIREA journal of Materials.

Dr. Krishna K. Pandey, Asst. Professor (Physics)
M.Sc, Ph.D.
17 years of teaching experience and published several Research Papers in National and International Journals. Attended several FDPs, Workshops and more than 25 National and International Conferences.

Dr. Sunil Chauhan, Asst. Professor (Physics)
M.Sc, M.Tech, Ph.D.
Published 25 research papers in International Journal of repute and has expertise in Multiferroic Materials. His publications have received more than 530 citations and hindex is 12.

Dr. Pargin Bangotra, Asst. Professor (Physics)
M.Sc, Ph.D.
M.SC (Physics) and Ph.D. (Nuclear and Radiation Physics) from Dr. B.R. Ambedkar National Institute of Technology, Jalandhar. Senior Research Fellow under research project sponsored by the Department of Atomic Energy and Board of Research in Nuclear Sciences with collaboration of Bhabha Atomic Research Centre (Mumbai).

Dr. S. Shankara Narayanan, Asst. Professor (Physics)
Ph.D.
Doctorate on 'Ultrafast spectroscopy and biocompatibility of nanocrystals from S N Bose National Centre for Basic Sciences. Awarded JRF and SRF from CSIR, India. Post doctoral research experience in the study of anisotropic nanocrystals such as gold nanorods and gold nanoprisms and nanoplasmonics.

DEPARTMENT OF CHEMISTRY & BIOCHEMISTRY

Dr. Vinay K. Verma, Associate Professor & HoD (Chemistry and Biochemistry)
M.Sc, Ph.D.
16 years of research and teaching experience. Published a number of research papers and book chapters in the Journals of International repute. Current research interest includes conceptual Density Functional theoretical calculations and experimental study.

Dr. S. Packirisamy, Professor (Chemistry and Biochemistry)
M.Sc, Ph.D. from IIT-Kharagpur.
Ph.D from IIT Kharagpur and 39 years of research experience. Ex-Deputy Director, VSSC/ISRO. Visiting Scientist, Michigan Molecular Institute, USA, Research Associate, Case Western Reserve University, USA, UNESCO Fellow, Tokyo Institute of Technology, Japan. Principal investigator of ISRO sponsored research project.

Dr. Geeta Durga, Associate Professor (Chemistry and Biochemistry)
M.Sc, NET (UGC-CSIR), Ph.D.
20 years of teaching and research experience. Published 3 book chapters and several research papers in reputed international Journals. Attended several short term courses, national/international conferences, FDPs, etc.

Dr. Anupam Agarwal, Asst. Professor (Chemistry and Biochemistry)
M.Sc, Ph.D. (Chemistry)
14 years of Research and Teaching Experience
15+ Research Publications and author of 2 books
Received Post-Doctoral Fellowship from University of Western Ontario, Canada.

Dr. Noopur Srivastava, Asst. Professor (Chemistry and Biochemistry)
M.Sc, Ph.D.
M.Sc, Ph.D. (CSIR), Lko), M.Sc., Lucknow University), CSIR -NET. More than 13 years experience. Expertise in design and synthesis of antitubercular molecules, lead identification and optimization of new chemical entities (NCEs) as antitubercular agents.

Dr. Sonia Khanna, Asst. Professor (Chemistry and Biochemistry)
M.Sc, Ph.D (CSIR-JRF/NET) GATE.
PhD from Guru Nanak Dev University Amritsar. More than 10 years of teaching experience. Published 16 articles and 4 book chapter in international journals. Expertise in synthesis, characterization and biological investigation of metal complexes and inorganic-organic hybrids.

Mr. Paratpar Sarkar, Asst. Professor (Chemistry and Biochemistry)
M.Sc, CSIR-UGC NET(Life Sciences), Ph. D (Pursuing)
Experience of 14+ years in teaching membrane biochemistry, enzymology and enzyme technology, genetics, immunology, biomolecules, metabolism of carbohydrates and lipids. Research areas are silico studies on natural product and their nano-conjugates for the application on cancer cell lines.

Dr. Richa Tomar, Asst. Professor (Chemistry and Biochemistry)
Ph.D, NET-JRF
6+ years of teaching & research experience. Ph.D from Delhi University on Synthesis and Characterization of Complex perovskites to study their electrical properties. Research interest is in exploring perovskites for the application of solar cells and hydroelectric cells.

Dr. N.B. Singh, Professor (Chemistry and Biochemistry)
M.Sc, Ph.D.
Dr. Singh was an Alexander von Humboldt fellow and has worked at TH Aachen, University of Clausthal, University Kassel and TU Dortmund University, Germany. His google scholar citations are 5500, h index 34 and iTen 127. He has over 50 years of teaching and research experience.

Dr. Ajay Kumar Tyagi, Professor, (Chemistry and Biochemistry)
M.Phil, Ph.D.
35 years of industrial research experience exclusively in the field of organic/polymer synthesis, modification, application, processing while designing and developing new materials of strategic applications. Published 39 research papers, 2 Book Chapters and 8 patents.

Mr. Tanmoy Chakraborty, Associate Professor, (Chemistry and Biochemistry)
Ph.D.
Published more than 50 research papers in journals of international repute & 8 Books and several book chapters. Research interest includes Theoretical and Computational Chemistry, Conceptual Density Functional Theory, QSAR / QSPR Studies, Material Science.

Dr. Mridula Guin, Asst. Professor (Chemistry and Biochemistry)
M.Sc, Ph.D.
Obtained her M.Sc. from Burdwan University and Ph.D. from IIT Bombay. She has more than 6 years of teaching experience, published 14 research papers in journals of international repute. Her research area is focused on computational studies on weak intermolecular interactions and energy systems.

Dr. Roopali Prajapati, Asst. Professor (Chemistry and Biochemistry)
M.Sc, Ph.D.
Ph.D in Physical Chemistry from the Discipline of Chemistry, IIT Indore. Her research interests are to explore quantum dots and metal nanoparticles in the field of energy transfer, biosensing, chemical sensing, and drug delivery system.

Dr. Vivek Srivastava, Asst. Professor (Chemistry and Biochemistry)
M.Sc, Ph.D.
4 years of teaching experience in Biochemistry, 4 years of Postdoctoral research in areas of Cancer biology, Epigenetics, Post-translation modifications of proteins, DNA damage response & DNA repair mechanism, 10 research papers in peer reviewed International journals with high impact factor.

Dr. Pankaj Gupta, Asst. Professor, (Chemistry and Biochemistry)
M.Sc, Ph.D.
His research areas are characterization of various multifunctional Inorganic materials such as layered double hydroxide and derivatives of polymer (polyaniline, polypyrrole, polythiophene, polycarbazoleetc), inorganic spinels, borates, sulfides, fluorides, etc.

Dr. Pooja Kalra, Asst. Professor (Chemistry and Biochemistry)
UGC-NET, Ph.D.
Published more than 18 research articles in international journals of repute. Research interest includes design and synthesis of organic-inorganic hybrids bearing alkoxysilane and silatrane frameworks for applications in heavy metal sensing, drug delivery, anti-oxidant, anti-microbial, catalysis, polymer chemistry.

Dr. Anindita De, Asst. Professor (Chemistry and Biochemistry)
M.Sc, Ph.D.
5 years of teaching experience. Research interest: Synthesis, characerization and uses of transition metal complexes with novel ligands. Ph.D. from IIT Kanpur and M.Sc. from University of Burdwan.

Dr. Preeti Jain, Asst. Professor (Chemistry and Biochemistry)
M.Sc, M.Tech, NET-JRF, GATE qualified, Ph.D.
Ph.D. in Coordination Chemistry from Gautam Buddha University and M.Tech. in Chemical Analysis from IIT Delhi. Her research interest involves the "Development of novel Chemotherapeutics and their theoretical and experimental investigations".

Dr. Harsimrut Kaur, Asst. Professor (Chemistry and Biochemistry)
Ph.D. (Medical Biochemistry), DU
16 years of experience. Core areas of research include Clinical Biochemistry & Molecular Oncology. Awardee of DST- Women Scientist Fellowship under WOS-A Scheme.

Dr. Nikhil Aggarwal, Asst. Professor (Chemistry and Biochemistry)
M.Sc, Ph.D.
Ph.D. in Physical Chemistry from Department of IIT Madras. His research interest involves Spectroscopic and Computational analysis of Supramolecular aggregates towards applications in OLED, OPV, NLO etc. based devices.

DEPARTMENT OF LIFE SCIENCES

Dr. Abhilasha S Mathuriya, Associate Professor & HoD (Life Sciences)
M.Tech., Ph.D.
16 years of research, teaching and administration experience. BRICS Young Scientist Alumni (2017). 26 high impact factor paper publications, 18 books/book chapters, filed 18 patents, in which 1 is granted. Handling nationally and internationally funded research projects.

Dr. Sher Ali, Professor (Life Sciences)
M.Sc, Ph.D.
Over 40 years of research, teaching and administrative experience in Molecular Genetics, Comparative Genomics, Protein Biochemistry, Bioinformatics, Gene Expression and Cancer Biology. Published 130 Research papers, one book, five book chapters and guided 29 PhD's and trained more than 300 short term trainees.

Dr. Vinod Joshi, Professor (Life Sciences)
M.Sc, Ph.D.
42 years of Research, Administrative, Training and Teaching experience in Dengue, H1N1, Malaria, Breast Cancer, Hepatitis C virus, Dracunculiasis and Cutaneous Leishmaniasis. 50+ Publications in Journals of National & International repute, 1 patent and 8 book chapters. Received many grants from National & International funding agencies in DMRC, Jodhpur.

Dr. Annette Angel, Associate Professor (Life Sciences)
M.Sc., PhD.
11 years of Research, Training, Teaching and Administrative experience. Expertise in the field of Dengue, H1N1 Viruses and Zoonotic diseases. Published 12 papers, 6 book chapters and 106 gene sequences of Dengue & H1N1 viruses. Member of World Society for Virology and reviewer in journals of national and international level.

Dr. Bennet Angel, Associate Professor (Life Sciences)
M.Sc., PhD.
15 years of Research, Training, Teaching and Administrative experience. Published 18 papers, 6 book chapters and submitted more than 100 gene sequences in the NCBI database. Member of Indian Virology Society & World Virology Society. Reviewer in Journals and funding agencies. Expertise in the field of Dengue and Respiratory Viruses.

Dr. Soumi Sadhu, Associate Professor (Life Sciences)
M.Sc,Ph.D.
10+ years of Research, Teaching and Administrative exp.; published papers in high impact factor journals; worked as Woman Scientist at ICMR. Member of Immunology Society and Flow Cytometry Society. Expertise in Immunology of infectious diseases, cancer and pediatric immunodeficiency diseases.

Dr. Amit K. Das, Asst. Professor (Life Sciences)
M.Sc., Ph.D
10+ years of experience in academic and industrial R&D. Expertise in extraction & analytical sciences of bioactive molecules, developing and commercializing value added products and Quality Assurance. He has publications in form of research papers and book chapters to his credit with international publishers of repute.

Dr. Ankur Sharma, Asst. Professor (Life Sciences)
M.Sc, Ph.D.
An experienced researcher and academic professional with doctoral degree from University of Ulster, UK. Research expertise in the field of Biotechnology, Nanotechnology and Pharmaceutical Science.

Dr. Jatin Kumar, Asst. Professor (Life Sciences)
Ph.D.
Research areas include genetic diversity assessment for crop conservation and sex determination in plants employing various molecular markers. He has 11 research publications in international journals and submitted 2 novel sex-specific sequences to NCBI gene bank.

Dr. Kanu Priya, Asst. Professor (Life Sciences)
Ph.D.
More than five years of teaching and research experience. Major specialization is in pharmacology and toxicology, cytotoxicity, and molecular biology. Several research articles have been published in renowned journals.

Dr. Piyush Kumar Gupta, Asst. Professor (Life Sciences)
Ph.D.
Works in the area of nanomaterials, drug delivery and tissue engineering. Inventor of 2 international and 2 national patents and published 16 research papers and 3 review articles in peer-reviewed international journals. Editorial member of journal of human physiology and guest editor for 3 Biotech journal, Springer.

Dr. Pritam Kr. Dikshit, Asst. Professor (Life Sciences)
Ph.D., M.Tech., B.Tech.
Ph.D. from IIT Guwahati, Assam. Postdoctoral research work from Chungbuk National University, Republic of Korea under Brain Korea 21 plus fellowship. Area of interest: Biofuel, Biopolymer, Fermentation, Waste biomass valorization etc.

Dr. Sanjay Kumar, Asst. Professor (Life Sciences)
M.Sc, Ph.D.
Worked as Scientist in IVF laboratory, Al Ain, UAE, established IVF in animal model. Worked as PDF Fellow at Mayo Clinic, Rochester, US. Expertise in clinical biomarker and assay development and cell-signaling with particular interest in cancers and kidney disease. Experience of six and half years post PhD.

Dr. Savita Rani, Asst. Professor (Life Sciences)
Ph.D.
Her present area of interest includes healthy foods and cereal science. She has authored and co-authored several articles in reputed journals and also works as reviewer for various journals.

Dr. Sharad Agrawal, Asst. Professor, (Life Sciences)
M.Sc, Ph.D.
Completed his M.Sc. and Ph.D. in Biotechnology. Has expertise in enzyme production via SSF/SmF, protein purification, enzyme characterization etc.

Dr. Soumya Pandit, Asst. Professor (Life Sciences)
Ph.D.
Post-PhD worked as PBC fellow at the Zuckerberg Institute for Water Research (ZIWR), Ben-Gurion University of the Negev, Israel. Recipient of North West University (South Africa) Post-doctoral fellowship. Published 3 Indian patents.

Dr. Sujata Pandit Sharma, Asst. Professor (Life Sciences)
Ph.D.
Experience of 11+ years in the field of Food Safety, Food Science/Food Technology and Nutrition. Served as Research Head for 7 years in R&D industry. Handled more than 12 projects of National and International agencies.

Dr. Sunny Dholpuria, Asst. Professor (Life Sciences)
Ph.D.
11 months of post PhD research experience and 2.5 years of teaching experience. Published 7 articles in reputed journal and a book chapter. Area of interest includes industrial enzymes, antimicrobial resistance and animal reproduction and fertility.

Dr. Swati Singh, Asst. Professor (Life Sciences)
Ph.D., M.Phil.
Area of research is Molecular Biology, Evolutionary Biology, Wax biosynthetic pathway and gene regulation in plants through miRNA. She has three publications in international journals, and two book chapters to her credit.

Dr. Vineeta Yadav, Asst. Professor (Life Sciences)
M.Sc., Ph.D.
Research work focused on whole genome sequencing, molecular characterization, and in-silico analysis of whole genome. She has published research articles in reputed journals. She has more than 10 years of teaching experience.

DEPARTMENT OF ENVIRONMENTAL SCIENCES

Dr. Pramod K. Singh, Professor & HoD (Environmental Science)
M.Sc, Ph.D.
20 years of teaching experience. Ph.D. (BHU, Varanasi) and Post-Doctorate from South Korea, Norway and Turkey. Reviewer of more than 30 International research journals. Published more than 150 research papers in international journals. Working on one project on Material Science (DRDO), Govt. of India.

Dr. Suman, Asst. Professor (Environmental Science)
M.Sc, Ph.D.
Ph.D. Indian School of Mines. (IIT-Dhanbad), M.Sc. (BHU, Varanasi). 11years of experience in Teaching and Industry. Published several research papers in journals of International repute.

Dr. Shruti Singh, Asst. Professor (Environmental Science)
Ph.D.
Ph.D. in Glaciology. Working/worked on 3 research projects on Himalayan glaciers as Co-PI. The projects are funded by renowned National/International agencies like SAC, ISRO and MoES, Govt. of India and the United States Agency for International Development (USAID), University of Colorado, U.S.A.

Dr. Sushmita Banarjee, Asst. Professor (Environmental Science)
Ph.D.
M.Sc. from the University of Allahabad. D.Phil. research on synthesis of nanoparticles and its application in water purification. Postdoctoral research on synthesis and application of bimetallic nanoparticles as a potential catalyst for wastewater treatment and biodiesel production.

SHARDA LAUNCHPAD FEDERATION.

Supporting Entrepreneurs

SHARDA LAUNCHPAD FEDERATION

AN EARLY STAGE INCUBATOR AND ENTREPRENEURIAL ECOSYSTEM

Sharda Launchpad Federation, a sec 8 entity established in year 2013 promoted by Sharda University aims to support the shared vision of Government of India and University towards building a bit more vibrant culture of innovation and entrepreneurship for campus, city and nation. With a house of thousands of learners, researchers, academicians and practitioners of several disciplines of learning, Sharda Launchpad Federation as a dedicated professional platform enables potential individuals, teams and early stage start-ups to access need based resources , domain expertise, Technology and business mentorship, vast entrepreneurial stakeholders network and a dynamic ecosystem to advance the entrepreneurial journey and build scalable market ready sustainable ventures of future.

SLPF as an entrepreneurial ecosystem is a dedicated facility with approx. 7000 sq.ft of area, contemporary working space with necessary technology infrastructure led by a dedicated full time leadership team to consistently advance the purpose of the incubator and design platforms to encourage, mentor and support promising ideas/early stage start-ups. The incubator as an entrepreneurial ecosystem, is working towards expanding to sector agonistic support system though prime focus areas of start up support are- Agriculture, Healthcare, Electronics and IT and SDGs aligned innovations.

Ecosystem partners and associates

The incubator is widely connected to vast pool of internal and external ecosystems, organisations, Experts, Mentors, Investors and Funds to accelerate the start-up success.

Mentorship & Support

SOCIO STORY

Ecosystem Partners

#startupindia

MSME Ministry of MSME, Govt. of India

MEITY STARTUP HUB

STARTUP INCUBATION AND INNOVATION CENTRE IIT KANPUR

SOCIOCHARGE Accelerating positive change

HealthStart

START INUP

IT & Startup Policy Government of Uttar Pradesh

Ministry of Electronics & Information Technology

Learn more about current projects, stakeholders and programmes at ***https://launchpad.sharda.ac.in/events-list***

SHARDA SKILLS

Enhancing competencies to excel

Sharda Skills is the training and skill building department of Sharda University which is involved in imparting life skills to students and professionals both within and outside the campus. Sharda Skills has a team of Industry Proven Subject Matter Experts and Professionals such as Certified Psychologists, Psychotherapists and Masters having cumulative training and teaching experience of more than 2 decades in some of the leading corporates of the country.

Sharda Skills training programmes revolve around developing resilience, tenacity, creativity, problem solving, multitasking, crisis management, team skills, communication skills and personality development etc. These programmes have been made an integral part of credit base courses and the trainers of Shrada Skills put their heart and soul in nurturing every student and help them to become a better and confident human being.

Sharda Skills also imparts specific skill(s)/skillsets which can be pursued either as a hobby or for employment, business, and entrepreneurial reasons.

Sharda Skills also provides coaching and mentoring to students who want to prepare for various competitive exams like UPSC, CAT, GRE, GMAT, SSC, IBPS etc within the campus after University hours.

Focus on Industry Organising Maximum Events

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1. Prof. AC Varshney, University of Maryland being felicitated during an event.
2. Guests from Vikram Sarabhai Space Centre (VSSC)/ISRO, Trivandrum visited Sharda campus.
3. Prof. Dr. Abdul Kariem Bin Hj Mohd Arof Department of Physics, University of Malaya
4. Organized Special Lecture on "S. Chandrasekhar: The Joy and Perils of doing Science" By Prof. K. R. Sreenivasan.
5. Dr. Hee Woo Rhee, Director of Research Center for Sansung Display Co.

6. Dr. Nadeem Tarin, philanthropist and businessman from Saudi Arabia being felicitated during the launch of Centre for Advanced Research in Applied Mathematics & Physics
7. Orientation Programme of SBSR
8. Eminent Delegates from Nigeria being felicitated
9. Prof. Zafar Ahsan, Former Chairman, Department of Mathematics, Aligarh Muslim University
10. Prof. RC Singh, SBSR with international delegate during International Symposium on Computational Science & its Application

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World-Class Infrastructure

Sharda University campus combines modern teaching and study spaces on 63 acres of landscaped greenery. At Sharda, you will 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 various countries. Our campus includes academic support, accommodation, sports, culture and entertainment-everything you need.

EAT
Discover multi-cuisine outlets on campus

LEARN
Browse through lacs of books in libraries

PLAY
Relax by playing many outdoor & indoor games

EXERCISE
Stay fit at the on-campus gymnasium

EXPERIENCE
Guest lectures, events & activities in auditoriums & seminar halls

RESEARCH
Hi-tech labs & research centres

CONNECT
Stay connected 24x7 through seamless Wi-Fi network

EXPLORE
One of north India's biggest educational hubs

Cultural Society of Sharda University

The Cultural Society of Sharda University is formed of 9 Clubs, where each of the clubs will be operated by student coordinators and board members under the supervision of faculty coordinators. The cultural society will be governed overall by the following functionaries:

- The Dean of Students' Welfare
- The Associate Dean of Students' Welfare
- Faculty Advisors of Cultural Society

FINE ARTS CLUB

The Fine Arts Club brings out the hidden artistic talents of our students, cultural programmes are conducted during Independence, Sports and college day function. Students participate in Inter & Intra-College competitions. The purpose is to encourage students to express their thoughts and emotions through art.

MUSIC CLUB

Music Club caters to the passion of student providing quality facilities like instruments, dedicated music room and a plethora of events. It serves as a platform for musicians of all genres and skill levels to showcase their talent at various events like Sufi Night and Voice of Sharda, etc. held at Sharda University.

DRAMATICS CLUB

The Dramatics Club is for students who are interested in Performing Arts. The Club offers acting education, a creative outlet for theatrically minded students, and a variety of theatrical productions for the students to enjoy. In the past students from the Club brought accolades for the University in various events.

DANCE CLUB

The Club was established with the mission of bringing out the hidden talents of students and also provides them a stage where they can showcase their dancing talent and interest. The Club provides lot of opportunities in the form of competition and workshops for igniting the spark of interest present in the budding technocrats and honing their skills towards showcasing their talents.

LITERARY CLUB

The Club aims to foster love for language, enhance literary creativity and provide an avenue for self-expression beyond the school curriculum. It is also to develop and hone the literary skills of students and inspire them to develop a taste for literature by conducting various workshops. The Club also initiates competitions in extempore, essay writing, creative writing, poetry writing, debate, elocution, quiz and reading to enhance the speech and oratorical skills.

DIVERSITY CLUB

Sharda University has a diversified group of students from across 80+ nationalities. The Diversity Club is dedicated in raising awareness of the various cultures among all students. Throughout the year various events are organized by the students to explore different cultures like Rejoice 3D, Festivals of Light, etc.

FASHION CLUB

The Fashion Club aims to bring students together who have a passion for the fashion industry by participating in local and regional fashion events. Club members work with Fashion Merchandising students to help with events and activities on and off campus. The Club has hosted fashion shows, fashion showcases, and window dressings of local businesses.

PHOTOGRAPHY CLUB

Photography Club of Sharda provides a platform where talent meets creativity and gives rise to productivity. Students are engaged in various activities that challenge their imaginative capabilities, assist in sharpening their photographic skills, and present an opportunity for students to learn from each other.

ENVIRONMENTAL CLUB

The main purpose of the Environmental Club is to educate on sustainable practices, to implement change in the best interest of the environment, and to include all persons working to improve the future of our earth by conducting significant workshops and seminars.

The Sharda Campus Life.

Truly Extraordinary!

Science Programmes Designed 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.

APPROVED BY
UNIVERSITY GRANTS COMMISSION

PROGRAMMES OFFERED BY SCHOOL OF BASIC SCIENCES & RESEARCH

B.Sc. (Hons.) Physics	3 Years
B.Sc. (Hons.) Chemistry	3 Years
B.Sc. (Hons.) Mathematics	3 Years
B.Sc. (Hons.) Zoology	3 Years
B.Sc. (Hons.) Data Science & Analytics	3 Years
B.Sc. (Hons.) Food Science & Technology	3 Years
B.Sc. (Hons.) Bio Chemistry	3 Years
B.Sc. (Hons.) Biotechnology	3 Years
B.Sc. (Hons.) Microbiology	3 Years
M.Sc. Biotechnology	2 Years
M.Sc. Microbiology	2 Years
M.Sc. Microbiology Specialization in Industrial Microbiology	2 Years
M.Sc. Microbiology Specialization in Molecular Biology	2 Years
M.Sc. Food Science & Technology	2 Years
M.Sc. Chemistry	2 Years
M.Sc. Physics	2 Years
M.Sc. Mathematics	2 Years
M.Sc. Environmental Science	2 Years
M.Sc. Water Resource & Environmental Management	2 Years
Ph.D. in all Basic Sciences (Full Time/Part Time)	Min. 3 Years

Department of Chemistry & Biochemistry

The Department of Chemistry & Biochemistry endeavors to be a nationally recognized model for nurturing students who can 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.

The Department of Chemistry and Biochemistry is engaged in research work actively since its inception in 2013. The faculty members of this Department have diversified research expertise and interest like medicinal chemistry, polymer chemistry, bioinformatics, computational chemistry, material chemistry, clinical biochemistry to name a few. The Department boasts in having one sponsored, ongoing project from ISRO and more than 80 published research papers over the years in various journals of national and international repute. To cater the need of contemporary research two advanced research laboratories were also established; namely Advanced Polymeric Material Laboratory (APML) and High Computing Laboratory (HCL). In addition to Ph.D. students, the department also encourages the B.Sc. and M.Sc. students to take research problems as a part of their degree project. The motto of the Department is to give the students a glimpse of modern research and to harbor the scientific talent in those who wish to build a career out of it. Research in the Department of Chemistry & Biochemistry is innovative, collaborative and interdisciplinary by nature. Faculty, Ph.D students, post-graduate and undergraduate students all contribute to the rich research environment. Students often visit national and multinational industries and R&D laboratories.

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 & Biochemistry

Laboratories

- Instrumental analytical facility (FTIR & UV-Visible spectrophotometer)
- Chemistry Lab-1
- Chemistry Lab-2
- Chemistry Lab-3
- Advanced Polymeric Materials Research Laboratory

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
- Fuel and Petrochemical industry

List Of Electives

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 non-edible 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

PROGRAMME STRUCTURE - B.Sc. (Hons.) Chemistry

FIRST YEAR		SECOND YEAR		THIRD YEAR	
TERM I	**TERM II**	**TERM III**	**TERM IV**	**TERM V**	**TERM VI**
COURSE	**COURSE**	**COURSE**	**COURSE**	**COURSE**	**COURSE**
1.1 Physical Chemistry-I	**2.1** Organic Chemistry-I	**3.1** Inorganic Chemistry-I	**4.1** Physical Chemistry-II	**5.1** Physical Chemistry-III	**6.1** Physical Chemistry-IV
1.2 Mechanics & Properties of Matter/ Biomolecules	**2.2** Analytical Chemistry-I	**3.2** Analytical Chemistry-II	**4.2** Organic Chemistry-II	**5.2** Organic Chemistry-III	**6.2** Organic Chemistry-IV
1.3 Foundation Course in Mathematics/ Fundamentals of Life Sciences	**2.3** Calculus-I/Biostatistics	**3.3** Solid State Physics/ Molecular Biology-I	**4.3** Inorganic Chemistry-II	**5.3** Inorganic Chemistry-III	**6.3** Inorganic Chemistry-IV
1.4 Functional English	**2.4** Optics/Cell Biology	**3.4** Calculus-II/Basic Microbiology	**4.4** Analytical Chemistry-III	**5.4** Advanced Topics in Chemistry	**6.4** Biological Chemistry
1.5 Computer Skills	**2.5** Environmental Sciences	**3.5** Industrial Chemistry	**4.5** Chemical Kinetics and Catalysis/ Solid State Chemistry	**5.5** Chemistry in Action/ Polymer Science	**6.5** Important inorganic compounds/ Industrial inorganic chemicals, energy and environment
1.6 Chemistry Lab-I	**2.6** Chemistry Lab-II	**3.6** University Elective	**4.6** Chemistry Lab-IV	**5.6** Chemistry Lab-VI	**6.6** Chemistry Lab-VIII
1.7 Physics Lab-I/ Biological Science Lab-I	**2.7** Physics Lab-II/ Biological Science Lab-II	**3.7** Physics Lab-III/ Biological Science Lab-III	**4.7** Chemistry Lab-V	**5.7** Chemistry Lab-VII	**6.7** Chemistry Lab-IX
		3.8 Chemistry Lab-III		**5.8** Project-I/ Dissertation-I	**6.8** Project-II/ Dissertation-II

PROGRAMME STRUCTURE - B.Sc. (Hons.) Biochemistry

FIRST YEAR		SECOND YEAR		THIRD YEAR	
TERM I	**TERM II**	**TERM III**	**TERM IV**	**TERM V**	**TERM VI**
COURSE	**COURSE**	**COURSE**	**COURSE**	**COURSE**	**COURSE**
1.1 Biomolecules	**2.1** Tools and Techniques in Biochemistry	**3.1** Metabolism of carbohydrates and lipids	**4.1** Human Physiology	**5.1** Genetics	**6.1** Genetic Engineering and Biotechnology
1.2 From Computer Science	**2.2** Cell Biology	**3.2** Molecular Biology-I	**4.2** Enzymology	**5.2** Hormonal Biochemistry	**6.2** Cell Signalling
1.3 Physical Chemistry-I	**2.3** Biostatistics	**3.3** Organic Chemistry-III	**4.3** Metabolism of amino acids and nucleotides	**5.3** Immunology	**6.3** Bioinformatics
1.4 Foundation Course in Mathematics	**2.4** Organic Chemistry-I	**3.4** Introduction to Microbiology	**4.4** Molecular Biology-II	**5.4** Proteins	**6.4** Membrane Biochemistry and Bioenergetics
1.5 Basic English/ Intermediate English	**2.5** Environmental Studies	**3.5** Inorganic Chemistry-I	**4.5** Introduction to Cancer Biology	**5.5** Medical Biochemistry	**6.5** Virology/ Plant Physiology
1.6 Chemistry Lab-I	**2.6** Chemistry Lab-II	**3.6** University Elective	**4.6** Molecular Biology Lab	**5.6** Genetics Lab	**6.6** Genetic Engineering Lab
1.7 Bioogical Science Lab-I	**2.7** Biological Science Lab-2	**3.7** Biological Science Lab-3	**4.7** Enzymology Lab	**5.7** Immunology Lab	**6.7** Bioinformatics Lab
		3.8 Chemistry Lab-III		**5.8** Project-I/Dissertation	**6.8** Project-II/Dessertation

PROGRAMME STRUCTURE - M.Sc. Chemistry

FIRST YEAR		SECOND YEAR	
TERM I	**TERM II**	**TERM III**	**TERM IV**
COURSE	**COURSE**	**COURSE**	**COURSE**
1.1 Inorganic Chemistry-I	**2.1** Inorganic Chemistry-II	**3.1** Molecular Spectroscopy	**4.1** Inorganic Chemistry-V/ Physical Chemistry-V/ Organic Chemistry-V
1.2 Organic Chemistry-I	**2.2** Organic Chemistry-II	**3.2** Inorganic Chemistry-III/ Physical Chemistry-III/ Organic Chemistry-III	**4.2** Inorganic Chemistry-VI/ Physical Chemistry-VI/ Organic Chemistry-VI
1.3 Physical Chemistry-I	**2.3** Physical Chemistry-II	**3.3** Inorganic Chemistry-IV/ Physical Chemistry-IV/ Organic Chemistry-IV	**4.3** Medicinal Chemistry/ Chemistry of Nanomaterials
1.4 Analytical Chemistry-I	**2.4** Analytical Chemistry-II	**3.4** Environmental Chemistry/ Polymer Science and Technology	**4.4** Dissertation-Part-B
1.5 Introduction to MATLAB & its application	**2.5** Renewable Energy Sources: Solar and Hydrogen Energy	**3.5** Organic Chemistry Lab-III/ Physical Chemistry Lab-III/ Inorganic Chemistry Lab-III	
1.6 Inorganic Chemistry Lab-I	**2.6** Community Connect	**3.6** Dissertation-Part-A	
1.7 Organic Chemistry Lab-I	**2.7** Inorganic Chemistry Lab-II		
1.8 Physical Chemistry Lab-I	**2.8** Organic Chemistry Lab-II		
	2.9 Physical Chemistry Lab-II		

Department of Environmental Sciences

The Department of Environmental Sciences offers M.Sc Water Resource and Environmental Management, M.Sc Environmental Sciences and Ph.D in Environmental Sciences. The Department has achieved a landmark of producing two DAAD Fellow and two students as Post Doc fellow in Lulea University, Sweden. The department is having research programmes funded by national and international agencies and has offered many fellowships (JRF/SRF/RA) to the students through these fundings. The department of Environmental Sciences has a well-equipped Environmental Laboratory. The laboratory has several instruments needed for air monitoring, physico chemical analysis of water and waste water. In addition, it has working space for full time Ph.D research scholars. The faculty members are having interest in interdisciplinary research on topics such as air pollution, solid waste management, glaciology, waste water etc.

Programmes Offered

- M.Sc. in Environmental Science
- M.Sc. in Water Resources & Environmental Management
- 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)

- Supported in organising the 19th edition of International Conference on Cryptology (**INDOCRYPT-2018**) jointly organized by Scientific Analysis Group (SAG), DRDO, Delhi and Sharda University, Greater Noida during December 09-12, 2018 held at India Habitat Centre, New Delhi.
- Supported in the **"National Instructional Workshop on Cryptology (NIWC-2017)"** during October 06-08, 2017 at RTDC, Sharda University, Greater Noida, Funding CRSI
- Organised Guest Lecture of Prof. J Narayan, The John C. C. family distinguished Chair in Material Engineering, distinguished Director of NSF Centre for Advanced Materials and Smart Structures, Department of Material Science and Engineering, North Carolina State University, Raleigh (USA), held at Sharad university, Gr. Noida on December 15, 2017 "Mind Matters" a talk by Mr. Rahul Pandey organised on 07/04/2015, Room No. 102, Block-III, Sharda University.
- **"SANLAYAN 2013-a Talent Hunt"** program of Sharda University organised on November 16, 2013 at Sharda University, Greater Noida, India
- Supported in organising **"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)
- Supported in organising **"National Conference on Semiconducting Materials and Nano Devices"**, during September 14-15, 2012, RTDC, Sharda University, Greater Noida, India
- Supported in organising **"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, India
- **National Conference on Environment and Energy Materials(NCEEM)** ON June 27-28, 2020 organised by Department of Environmental Sciences

Environmental Awareness Events

- **Ozone Day** - on 16th September 2019 at Sharda University, Greater Noida.
- **"Earth Day-2018"** on 22nd April, 2017 at Sharda University, Greater Noida, Funding Agency: Ministry of Earth Sciences, Govt. of India and Sharda University
- **"Water Conservation"** Event in collaboration with CMS VATAVARAN Environment and Wildlife Film Festival and Forum on 13th October, 2017, Held 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
- **"National Wetland Day"** on 2nd February,2021 , Sharda University, Greater Noida
- **"Ozone Day"** on 16th September, 2020, Sharda University, Greater Noida
- **"Environment Day"** on 5th June, 2020, Sharda University, Greater Noida

Research Projects Funded By National/international Organisation: 05

Sponsored Projects (ONGOING)-1 Nos.: Grant Rs. 20,00,000/-

- "Integrated Studies of Himalayan Cryosphere (ISHC)" Energy Balance study on Batal Glacier, Himachal Himalaya, sponsored by Space Applications Centre, ISRO, Ahmedabad, **Grant - Rs. 20,00,000.00**

Sponsored Projects (COMPLETED)-04 Nos.: Total Grant: Rs. 1,63,03,300.00

- Contribution to High Asia Runoff from Ice and Snow (CHARIS), funded by United States Agency for International Development (USAID), USA, **Grant - $ 1,12,100**
- Study of Glacio-hydro-meteorological Processes at the Naradu Glacier, funded by Department of Science and Technology (DST), Govt. of India, **Grant - Rs. 50,55,000.00**
- Snout Monitoring, Mapping, Mass and Energy Balance and Assessment of Biophysical Environment of Naradu Glacier, H.P., funded by Dept. of Sc. & Technology (DST), New Delhi, India, **Grant - Rs. 19,61,800.00**
- Case studies of impacts of climate change on hydrological regime in Nepal, India and Afghanistan, funded by South Asia Water Initiative (SAWI), ICIMOD, Kathmandu, Nepal, **Grant - $ 31,000.00**

PROGRAMME STRUCTURE - M.Sc. Water Resource and Environmental Management

FIRST YEAR		SECOND YEAR	
TERM I	**TERM II**	**TERM III**	**TERM IV**
COURSE	**COURSE**	**COURSE**	**COURSE**
1.1 Water Resources & Management	**2.1** Environmental Legislation and Audit	**3.1** Research Methodology	**4.1** Environmental Impact & Risk Assessment
1.2 Environmental Chemistry	**2.2** Climate Change & Sustainable Development	**3.2** Biodiversity Conservation and Management	**4.2** Water Purification & Treatment Processes
1.3 Environmental Pollution	**2.3** Environmental Toxicology	**3.3** Fundamentals of Hydrology	**4.3** Dissertation-II
1.4 Solid and Hazardous Management	**2.4** Glaciology & Climate Change	**3.4** Instrumentation and Techniques	
1.5 Earth Ecology and Environment	**2.5** Remote Sensing Techniques & GIS	**3.5** Biostatistics	
1.6 Technical Presentation	**2.6** Energy Sources and Global Scenario	**3.6** University Open Elective	
1.7 Water Pollution & Monitoring Lab	**2.7** Remote Sensing & GIS	**3.7** Environmental Data Analysis	
	2.8 Community Connect Course	**3.8** Dissertation-I	

PROGRAMME STRUCTURE - M.Sc. Environmental Science

FIRST YEAR		SECOND YEAR	
TERM I	**TERM II**	**TERM III**	**TERM IV**
COURSE	**COURSE**	**COURSE**	**COURSE**
1.1 Climatology and Oceanography	**2.1** Concepts of Environmental Toxicology	**3.1** Water Treatment and Purification Techniques	**4.1** Dissertation-II
1.2 Applied Environmental Chemistry	**2.2** Environmental Law and Audit	**3.2** EIA and Risk Assessment Analysis	**4.1** Industrial Training Report
1.3 Natural Resource Management	**2.3** Remote Sensing and GIS Application	**3.3** Environmental Pollution and Control	
1.4 Fundamentals of Instrumentation Techniques	**2.4** Global Climate System and Sustainable Development	**3.4** Health Safety and Environment	
1.5 Hydrology Basics and Water Management	**2.5** Disaster Management	**3.5** Dissertation-I (Practical)	
1.6 Energy Economics and Policy	**2.6** Research, Biostatistics and Computer Application	**3.6** Environmental Data Analysis (Practical)	
1.7 Water Pollution & Monitoring Lab (Practical)	**2.7** Remote Sensing & GIS (Lab)		
	2.8 Community Connect Course (Lab)		

Department of Life Sciences

The Department of Life Sciences offers undergraduate and postgraduate courses in various disciplines such as Biotechnology, Microbiology, Food Science and Technology, Life Science (Botany and Zoology), Industrial Microbiology and Molecular Biology. All these courses encompass promising areas of research and employability.

The Department has well equipped laboratories for research and routine lab experiments. The faculty members are dynamic and pursue interdisciplinary research in the areas of plant biotechnology, crop improvement, protein biochemistry, drug discovery, virology, fermentation and industrial biotechnology, food processing and development of novel food products etc.

Programmes Offered

B. Sc. (Hons.) Biotechnology
B. Sc. (Hons.) Zoology
B. Sc. (Hons.) Food Science and Technology
B. Sc. (Hons.) Microbiology
M.Sc. - Biotechnology
M.Sc. - Microbiology with specialization in

- Industrial Microbiology
- Molecular Biology

M.Sc. - F ood Science and Technology
Ph.D. - Biotechnology
Ph.D. - Food Science and Technology

Career Prospects

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

Laboratories

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

- Cell and Molecular Biology Laboratory
- Microbiology Laboratory
- Plant Tissue Culture Laboratory
- Animal Cell Culture Laboratory
- Virology Laboratory
- Bioprocess engineering Laboratory
- Biochemistry & Enzyme Engineering Laboratory

Food Technology Laboratory The Department also has a herbal garden and an animal house for in-vivo experiments.

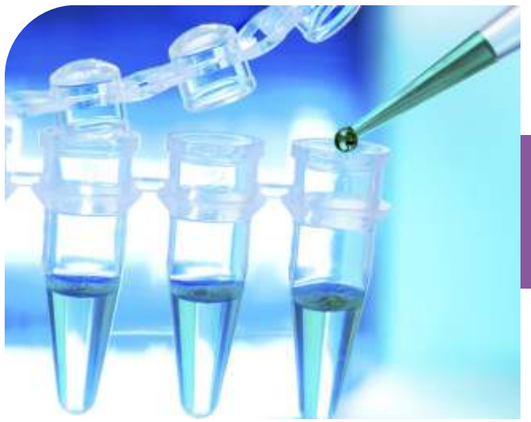
Electives

The Department of Life Sciences offers various elective subjects to enhance and broaden the interdisciplinary skills of students. Elective courses are offered in both UG and PG programmes. Some of the elective subjects offered are as follows:

- Medical Microbiology
- Nutritional Biochemistry
- Fermentation Technology
- Cancer Biology
- Analytical Techniques for Plants
- Plant Diversity and Human Welfare
- Applied Microbiology
- Bio-industrial Entrepreneurship
- Wildlife conservation and Management
- Applied Zoology
- Fundamentals of Nano Science
- Biofertilizers Project/Workshop/Conferences (National & International)

Projects/Workshops/Conferences (National & International)

- Every year organises 'National Conference on Recent Advancement in Biotechnology & Bioengineering' at Sharda University, 2019
- Many patents have been filed by the department in last three years.
- Several research papers have been published in various peer-reviewed journals.
- Regularly organises workshops on various research activities.
- A MoU was recently signed between AIBTM, Greater Noida and Sharda University.
- At present many projects funded by Government agencies like DBT, DRDO& 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 as well as 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.
- The Food Safety and Standards Authority of India (FSSAI), Ministry of Health and Family Welfare, Govt. of India in collaboration with ISO AQMCS a training partner and Department of Life Sciences, School of Basic Sciences & Research, Sharda University conducted a "Food Safety Training and Certification (FoSTaC)" Program on October 11, 2019.
- Department celebrated World Food Day, "QUIZZY FOOD MANIA" on October 16, 2019.
- Department organized "The Foodpreneurs Quest" on October 16, 2019, a competition in which students participated and incubated new business ideas.
- 3rd National Conference on "Biotechnology & Bioengineering-Innovation and Advancement for Sustainable Future" was organized during November 7-8, 2019.
- The Department also organized an educational visit to Indian Agriculture Research Institute (IARI), Pusa, New Delhi, on November 7, 2019.
- The school with School of Engineering & Technology, Sharda University jointly organized a special lecture on "Job Prospects in Atomic Energy Sector" on November 15, 2019 for final year students of SBSR and SET.
- An industrial Visit to Diosiv Foods Pvt. Ltd., Lohamani, Ghaziabad, UP was conducted on November 16, 2019 by various students.
- Hands on Training Program on GMP, Food Quality Control and Food Safety was held on February 4-10 , 2020 at Auto Expo 2020, Greater Noida.
- Industrial Visit to Yakult Danone Pvt. Ltd. Sonipat Haryana was organized February 13, 2020.
- An educational tour has been arranged by the Department for B.Sc. Zoology students to Bharatpur on March 13-14, 2020.
- An Webinar on 'Agri-Business Opportunities for Students" in Food Processing and Agro Industries was conducted on May 28, 2020.
- The Department organized 7 days E-FDP cum workshop on " Waste to Bio-energy" on June 28, 2020.
- A webinar on "Preparation of Competitive Entrance Exams for MSc. and PhD programs" was conducted on September 2, 2020.
- Webinar on "Gender Sensitization: An Inclusive Philosophy" was organized by Department on September 29, 2020.
- Food Safety Training and Certification (FoSTaC) Program by FSSAI, Govt. of India was organized by the department on October 11, 2019.
- National workshop cum e-FDP on "Transformation of Food Processing from Laboratory to Industries" was organized by the Department during October 12–16, 2020.
- An orientation program for the newly admitted First Year students was organized by the Department from October 19-22, 2020.



PROGRAMME STRUCTURE - B.Sc. (Hons.) Zoology

FIRST YEAR		SECOND YEAR		THIRD YEAR	
TERM I	TERM II	TERM III	TERM IV	TERM V	TERM VI
COURSE	COURSE	COURSE	COURSE	COURSE	COURSE
1.1 Essentials of Chemistry for Biosciences	**2.1** Physics-V	**3.1** Non Chordates	**4.1** Genetic Engineering	**5.1** Animal Physiology & Histology-II	**6.1** Animal Biotechnology
1.2 Cell Biology	**2.2** Communicative English	**3.2** Animal Physiology and Histology-I	**4.2** Diversity of Chordates	**5.2** Ecology	**6.2** Genomics
1.3 Environmental Studies	**2.3** Microbiology	**3.3** Molecular Biology/ Advanced Biochemistry	**4.3** Developmental Biology of Animals	**5.3** Comparitive Anatomy of Vertebrates	**6.3** Parasitology
1.4 University Elective	**2.4** Genetics	**3.4** Food Microbiology/ Food Biotechnology	**4.4** Metabolic Pathways	**5.4** Bioinformatics	**6.4** Evolutionary Biology
1.5 Biomolecules/ Diversity of Animals	**2.5** Bioanalytical Techniques/ Environmental Biotechnology	**3.5** Insect Vector & Diseases/ Animal Behaviour and Chronobiology	**4.5** Immunology/ Applied Microbiology	**5.5** Fish and Fisheries/ Applied Zoology	**6.5** Endocrinology/ Biology of Insecta
1.6 Chemistry Lab for Biosciences	**2.6** Microbiology Lab	**3.6** Non Chordates Lab	**4.6** University Elective	**5.6** Comparative Anatomy of Vertebrates Lab	**6.6** Parasitology Lab
1.7 Cell Biology Lab	**2.7** Physics Lab	**3.7** Histology of Animals	**4.7** Genetic Engineering Lab	**5.7** Animal Physiology Lab	**6.7** Animal Biotechnology Lab(C)
			4.8 Biology of Chordates Lab	**5.8** Bioinformatics Lab	**6.8** Project/Dissertation
				5.9 Community Connect	

PROGRAMME STRUCTURE - B.Sc. (Hons.) Biotechnology

FIRST YEAR		SECOND YEAR		THIRD YEAR	
TERM I	TERM II	TERM III	TERM IV	TERM V	TERM VI
COURSE	COURSE	COURSE	COURSE	COURSE	COURSE
1.1 Essentials of Chemistry and Biosciences	**2.1** Physics V	**3.1** Molecular Biology	**4.1** Genetic Engineering	**5.1** Industrial Biotechnology	**6.1** Bioreactors and Downstream Processing
1.2 Cell Biology	**2.2** Communicative English	**3.2** Instrumentation	**4.2** Enzyme Technology	**5.2** Plant Biotechnology	**6.2** Genomics
1.3 Environmental Studies	**2.3** Microbiology	**3.3** Developmental Biology of Plants/ Developmental Biology of Animals	**4.3** Immunology	**5.3** Bioinformatics	**6.3** Proteomics
1.4 University Elective	**2.4** Genetics	**3.4** Animal Physiology and Histology-I/Anatomy of Angiosperms	**4.4** Metabolic Pathways	**5.4** Intellectual Property Rights	**6.4** Animal Biotechnology
1.5 Biomolecules/ Diversity of Animals	**2.5** Diversity of Plants/ Bioanalytical Techniques	**3.5** Advanced Biochemistry/Mycology and Phycology	**4.5** Medical Biotechnology/ Applied Microbiology	**5.5** Medical Microbiology/ Economic Botany	**6.5** Food and Dairy Microbiology/ Bioethics and Biosafety
1.6 Chemistry Lab for Biosciences	**2.6** Microbiology Lab	**3.6** Molecular Biology Lab	**4.6** University Elective	**5.6** Plant Biotechnology Lab	**6.6** Downstream Processing Lab
1.7 Cell Biology Lab	**2.7** Physics Lab	**3.7** Instrumentation Lab	**4.7** Genetic Engineering Lab	**5.7** Bioinformatics Lab	**6.7** Genomics and Proteomics Lab
			4.8 Enzyme Technology & Immunology Lab	**5.8** Industrial Biotechnology Lab	**6.8** Project/Dissertation
				5.9 Community Connect	

PROGRAMME STRUCTURE - B.Sc. (Hons.) Microbiology

FIRST YEAR		SECOND YEAR		THIRD YEAR	
TERM I	TERM II	TERM III	TERM IV	TERM V	TERM VI
COURSE	COURSE	COURSE	COURSE	COURSE	COURSE
1.1 Essentials of Chemistry and Biosciences	**2.1** Physics V	**3.1** Bacteriology	**4.1** Genetic Engineering	**5.1** Industrial Microbiology	**6.1** Microbial Biotechnology
1.2 Cell Biology	**2.2** Functional English	**3.2** Instrumentation	**4.2** Enzyme Technology	**5.2** Medical Microbiology	**6.2** Food and Dairy Microbiology
1.3 Environmental Studies	**2.3** Introduction to Microbiology and Microbial Diversity	**3.3** Molecular Biology/ Non Chordates	**4.3** Immunology	**5.3** Virology	**6.3** Environment Microbiology
1.4 University Elective	**2.4** Genetics	**3.4** Mycology and Phycology/Food Biotechnology	**4.4** Microbial Physiology and Metabolism	**5.4** Bioinformatics (C)	**6.4** Bioethics and Biosafety/Genomics
1.5 Biomolecules/Principle of Nutrition Science	**2.5** Diversity of Plants/ Bioanalytical Techniques	**3.5** Instrumentation/ Biofertilizers	**4.5** Applied Microbiology/ Metabolic pathways	**5.5** IPR and Industrial Ethics/Bioreactor and Downstream Processing	**6.5** Term Paper
1.6 Chemistry Lab for Biosciences	**2.6** Microbial Diversity Lab	**3.6** Baceriology Lab	**4.6** University Elective	**5.6** Industrial Biotechnology Lab	**6.6** Microbial Biotechnology Lab
1.7 Cell Biology Lab	**2.7** Physics Lab	**3.7** Instrumentation Lab	**4.7** Genetic Engineering Lab	**5.7** Medical Microbiology Lab	**6.7** Food and Dairy Microbiology Lab
			4.8 Enzyme Technology and Immunology Lab	**5.8** Bioinformatis Lab	**6.8** Project/Dissertation
				5.9 Community Connect	

PROGRAMME STRUCTURE - B.Sc. (Hons.) Food Science and Technology

FIRST YEAR		SECOND YEAR		THIRD YEAR	
TERM I	TERM II	TERM III	TERM IV	TERM V	TERM VI
COURSE	COURSE	COURSE	COURSE	COURSE	COURSE
1.1 Essentials of Chemistry for Biosciences	**2.1** Physics V	**3.1** Food Chemistry	**4.1** Food Enzymology	**5.1** Technology of Fruits and Vegetables	**6.1** Dairy Technology
1.2 Principles of Nutrition Science	**2.2** Probability & Statistics	**3.2** Food Biotechnology	**4.2** Food Quality Analysis	**5.2** Technology of Spices and Functional Foods	**6.2** Technology of Meat Poultry and Sea Foods
1.3 Bimolecules	**2.3** Introduction to Food Technology	**3.3** Human Health and Diseases	**4.3** Processing Technology of Cereals, Pulses Legumes and Oil seeds	**5.3** Food Packaging	**6.3** Food Safety and Regulations
1.4 University Elective	**2.4** Microbiology	**3.4** Food Microbiology	**4.4** Principles of Food Preservation	**5.4** Community Connect	**6.4** Waste Management in Food Industries
1.5 Chemistry Lab for Biosciences-1	**2.5** Environmental Sciences	**3.5** Nutrition Science and Human Physiology	**4.5** Unit Operations in Food Processing	**5.5** Technology of Fruits and Vegetables Lab	**6.5** Dairy Technology Lab
1.6 Principles of Nutrition Science Lab	**2.6** Food Technology Lab	**3.6** Food Biotechnology and Food Microbiology Lab	**4.6** Food Preservation Lab	**5.6** Technology of Spices and Functional Foods lab	**6.6** Technology of Animal Foods Lab
1.7 Communicative English	**2.7** Physics Lab	**3.7** Food Chemistry and Processing Lab	**4.7** Processing Technology of Cereals Pulses Legumes Oil seeds and Enzymes Technology Lab	**5.7** Project	**6.7** Project

PROGRAMME STRUCTURE - M.Sc. Biotechnology

FIRST YEAR		SECOND YEAR	
TERM I	**TERM II**	**TERM III**	**TERM IV**
COURSE	**COURSE**	**COURSE**	**COURSE**
1.1 Advanced Biochemistry	**2.1** Bio instruments	**3.1** Immunology and Immunotechnology	**4.1** Project/Dissertation/ Industrial Training
1.2 Advanced Molecular Biology	**2.2** Advances in Plant Biotechnology	**3.2** Bioprocess Technology and Quality Control	
1.3 Medical Biotechnology	**2.3** Advanced Genetic Engineering	**3.3** Genomics	
1.4 Enzyme Technology	**2.4** Animal Cell Technology	**3.4** Cancer Biology	
1.5 IPR	**2.5** Bioinformatics	**3.5** Environmental Microbiology and Waste Management	
1.6 Biochemistry Lab	**2.6** Genetic Engineering Lab	**3.6** Enzyme Technology Lab	
1.7 Molecular Biology Lab	**2.7** Plant Biotechnology Lab	**3.7** Genomics & Bacterial Genomics Lab	
1.8 Enzyme Technology Lab	**2.8** Bioinstrumentation Lab	**3.8** Bioprocess technology Lab	
		3.9 Community Connect	

PROGRAMME STRUCTURE - M.Sc. Food Science and Technology

FIRST YEAR		SECOND YEAR	
TERM I	**TERM II**	**TERM III**	**TERM IV**
COURSE	**COURSE**	**COURSE**	**COURSE**
1.1 Nutrition Biochemistry	**2.1** Fermentation Technology	**3.1** Food Quality and Assurance	**4.1** Bakery, Confectionary and Extruded Products
1.2 Advanced Food Processing	**2.2** Advanced Food Safety and Toxicology Biotechnology	**3.2** Technology of Meat, Poultry and Fish Products	**4.2** Technology of Plant Derived Foods
1.3 Advanced Food Chemistry	**2.3** Advanced Food Biotechnology	**3.3** Waste Management in Food Industries	**4.3** Dissertation-II
1.4 Technology of Fruits, Vegetables and Plantation Crops	**2.4** Food Microbiology	**3.4** Techniques in Food Analysis	
1.5 Biostatistics	**2.5** Bioinformatics	**3.5** Food Quality and Assurance Lab	
1.6 Advanced Food Chemistry Lab	**2.6** Advanced Food Biotechnology Lab	**3.6** Meat Technology Lab	
1.7 Advanced Food Processing Lab	**2.7** Advanced Food Microbiology Lab	**3.7** Dissertation-I	
1.8 Food Preservation Lab	**2.8** Advanced Food Safety and Toxicology Lab		

PROGRAMME STRUCTURE - M.Sc. Microbiology

FIRST YEAR		SECOND YEAR	
TERM I	**TERM II**	**TERM III**	**TERM IV**
COURSE	**COURSE**	**COURSE**	**COURSE**
1.1 Microbial Diversity	**2.1** Bio-instruments	**3.1** Environmental Microbiology and Waste Management	**4.1** Project/Dissertation/ Industrial Training
1.2 Molecular Biology	**2.2** Mycology, Phycology and Virology	**3.2** Infection, Immunity and Diagnostics	
1.3 Microbial Metabolism	**2.3** Recombinant-DNA Technology	**3.3** Microbial Biotechnology	
1.4 Enzymology	**2.4** Bacteriology	**3.4** Fermentation and Downstream Processes	
1.5 IPR	**2.5** Bioinformatics	**3.5** Food Microbiology	
1.6 Microbial Diversity Lab	**2.6** Bioinstrumentation Lab	**3.6** Microbial Biotechnology Lab	
1.7 Enzymology Lab	**2.7** Recombinant DNA Technology Lab	**3.7** Immunology Lab	
1.8 Molecular Biology Lab	**2.8** Mycology, Phycology and Virology Lab	**3.8** Fermentation Technology Lab	
		3.9 Community Connect	

PROGRAMME STRUCTURE - M.Sc. Microbiology Specialization in Industrial Microbiology

FIRST YEAR		SECOND YEAR	
TERM I	**TERM II**	**TERM III**	**TERM IV**
COURSE	**COURSE**	**COURSE**	**COURSE**
1.1 Basic Industrial Biotechnology	**2.1** Bioprocess Engineering	**3.1** Environmental Microbiology	**4.1** Project II/Dissertation/ Industrial Training
1.2 Analytical Methods and Instrumentation	**2.2** Downstream Processing	**3.2** Enzymology	
1.3 Advanced Microbiology	**2.3** Food and Dairy Microbiology	**3.3** Research Methodology	
1.4 Biomolecules	**2.4** Metabolic Pathways	**3.4** Community Connect	
1.5 IPR (Intellectual Property Rights)	**2.5** Term Paper-2	**3.5** Project-1	
1.6 Elective-1	**2.6** Elective-2		
1.7 Term Paper-1	**2.7** Downstream Processing Laboratory		
1.8 Applied Microbiology Laboratory	**2.8** Bioprocess Laboratory		
1.9 Instrumental Method of Analysis Lab			

PROGRAMME STRUCTURE - M.Sc. Microbiology Specialization in Molecular Biology

FIRST YEAR		SECOND YEAR	
TERM I	**TERM II**	**TERM III**	**TERM IV**
COURSE	**COURSE**	**COURSE**	**COURSE**
1.1 Biomolecules	**2.1** Metabolic Pathways	**3.1** Infection, Immunity and Diagnostics	**4.1** Project II/Dissertation/ Industrial Training
1.2 Enzymology	**2.2** Biostatistics	**3.2** Research Methodology	
1.3 Molecular Biology	**2.3** Recombinant DNA Technology	**3.3** Elective I	
1.4 Bioinstruments	**2.4** Term Paper	**3.4** Immunology Lab	
1.5 Microbial Diversity	**2.5** Stem Cell Technology	**3.5** Community Connect	
1.6 Enzymology Lab	**2.6** Bioinformatics	**3.6** Project 1	
1.7 Molecular Biology Lab	**2.7** RDT Lab		
1.8 Bio-Instrumentation Lab	**2.8** Bioinformatics Lab		
	2.9 Basic and Clinical Biochemistry Lab		

Department of Mathematics

Mathematics is the language of nature. Certain qualities that are nurtured by mathematics are the power of reasoning, creativity, abstract or spatial thinking, critical thinking, problem solving activity & more. To express any problem from the real world, the logic and reasoning akin to mathematics along with its concepts and structures is a must. Department of Mathematics runs undergraduate & postgraduates courses with a balance syllabus of both pure & applied mathematics and offers Ph.D programmes in various areas of specializations such as Number theory & cryptography, Fluid dynamics, Mathematical modelling, Numerical analysis, Functional analysis, Graph theory, Operations research & Special functions. Different groups are also working in advanced fields of Mathematics like chaos theory and dynamical systems. Department of Mathematics also supports other schools in their courses such as School of Engineering & Technology (SET), School of Education (SOE), School of Nursing Science & Research (SNSR) and others.

Due to high demand in Industry, the department also started B.Sc. in Data Sciences and plans to introduce some more advanced courses in the future

Strength of The Department:

- 7 research scholars have been awarded Ph. D. degree.
- 91 research papers have been published in reputed national and international journals.
- 11 books published by reputed publishers.
- Students strength increased by 33%.
- Highly qualified faculty members and students are being exposed by eminent personalities of the world.
- An interdisciplinary research centre "Centre for Advanced Research in Applied Mathematics and Physics" with three scholarship for research projects.

Programmes Offered

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

Electives

- Number Theory and Cryptography
- Measure Theory
- 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 basic and modern computing facilities which include advanced software such as MATLAB, PYTHON, R &SPSS.

Workshop/Career Guidance Programme/Seminars

- Workshop based on career counselling and hands-on practice session for all final year students | 4th April 2019
- National Workshop on Mathematical Modelling Using MATHEMATICA | 9th - 13th April 2019
- Technical Seminar on "Mathematical Applications and Modelling" | Final year students | 29th April 2019
- Industrial visit to Imperial Tobacco Company of India Limited (ITC), Haridwar, Uttarakhand | 23th-24th October, 2019.

Academic curricular Activities and Achievement:

- Mathematics department started Sharda Mathematics Olympiad (SMO- 2020).
- From the last two years, the Department has been giving coaching for NET/SLET classes
- In 2019, one student cleared Civil services and one cleared JAM.
- Four students have cleared first round of Wipro Placement drive.

Invited Lectures

- "Industrial and Financial Mathematics" by Prof. Kum Kum Dewan, Adjunct Professor, MITS, M.P. Technical University, Gwalior, 1st November 2019.
- Invited lecture on "Data Mining and Wavelets" by Prof. P. Manchanda (Professor & Head, Department of Mathematics, Guru Nanak Dev University, Amritsar), 15th April 2019.
- Expository Lecture on "Fractal with Real life Applications" by Prof.Rashmi Bharadwaj (Professor, Department of Mathematics, Guru Gobind Singh Indraprastha University, New Delhi), 18th January 2019.
- Expert Lecture on "Role of Artificial Intelligence in Natural Language Processing and Computational Linguistics" by Prof. Ashish Chandiok on 15th February 2019.
- Expert lecture on "Vector Order and Set Order: Vector Optimization and Set Optimization" by Prof. Q. H. Ansari (Department of Mathematics Aligarh Muslim University). He did his Ph. D. from AMU, Aligarh.
- Expert lecture on "Carbon Nanotubes and its applications" by Prof. Mushahid Husain (Former- Director Nano science and Nanotechnology Centre and former Vice Chancellor M. J. P. Rohilkhand University, Bareilly), 22th February, 2019

The following International Academicians have graced various events organised by the Department of Mathematics

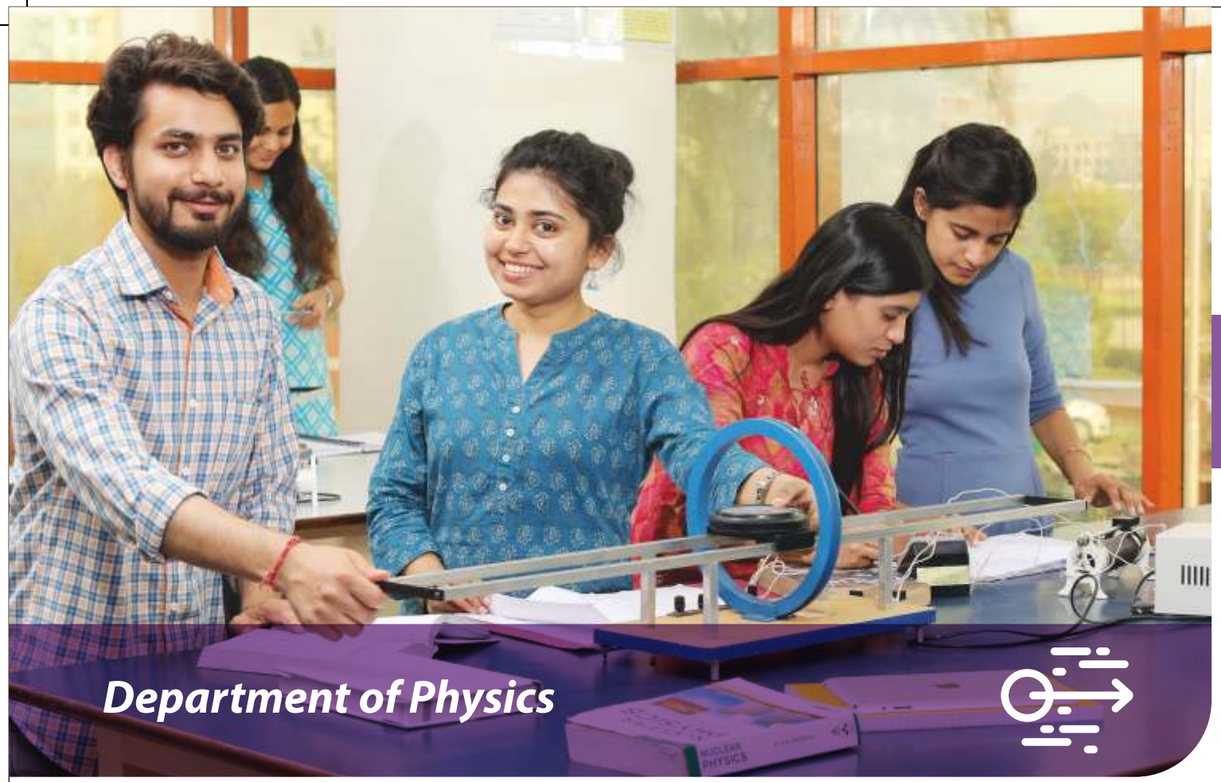
- Prof. Pavel Exner (President, European Mathematical Society).
- Prof. G. Leugering (Vice president, Friedrich-Alexander University, Germany).
- Prof. Stephane Jaffard (University of Paris, East, France).
- Prof. M. Shahjahan (Memphis University, USA).
- Prof. H. Feichtinger (Vienna University, Austria).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

PROGRAMME STRUCTURE - B.Sc. (Hons.) Mathematics

FIRST YEAR		SECOND YEAR		THIRD YEAR	
TERM I	**TERM II**	**TERM III**	**TERM IV**	**TERM V**	**TERM VI**
COURSE	**COURSE**	**COURSE**	**COURSE**	**COURSE**	**COURSE**
1.1 Mechanics & props of matter	**2.1** Optics/Thermal Physics	**3.1** Calculus-II	**4.1** Ordinary Differential Equations	**5.1** Real Analysis-II	**6.1** Complex Analysis
1.2 Physical Chemistry-I	**2.2** Organic Chemistry-I	**3.2** Statistics-I	**4.2** Analytical Geometry	**5.2** Operations Research	**6.2** Mechanics
1.3 Foundation Course in Mathematics	**2.3** Calculus-I/ Biostatistics	**3.3** Introduction to MATLAB	**4.3** Real Analysis-I	**5.3** Abstract Algebra	**6.3** Graph Theory
1.4 Computer Course	**2.4** Linear Algebra	**3.4** Inorganic Chemistry-I	**4.4** Numerical Analysis	**5.4** Partial Differential Equations	**6.4** Metrics Spaces
1.5 Basic/Intermediate English	**2.5** Environnemental Studies	**3.5** Electricity and Magnetism	**4.5** Statistics-II	**5.5** Discrete Mathematics	**6.5** Applied Statistics
1.6 Physics Lab-I	**2.6** Physics Lab-II	**3.6** Open elective opted by students (under CBCS)	**4.6** Mathematical Logic Building-I	**5.6** Mathematical Logic Building-II	**6.6** Mathematics Lab-IV (LaTeX/HTML)
1.7 Chemistry Lab-I	**2.7** Chemistry Lab-II	**3.7** Statistics Lab-I (based on MSM 207)	**4.7** Statistics Lab-II	**5.7** Mathematics Lab-III (Based on MSM 315, 312)	**6.7** Dissertation-II
		3.8 Mathematics Lab-I (MATLAB, based on MSM229)	**4.8** Mathematics Lab-II (Based on MSM 213)	**5.8** Dissertation-I	

PROGRAMME STRUCTURE - M.Sc. Mathematics

FIRST YEAR		SECOND YEAR	
TERM I	**TERM II**	**TERM III**	**TERM IV**
COURSE	**COURSE**	**COURSE**	**COURSE**
1.1 Real Analysis	**2.1** Numerical Methods with Programming	**3.1** Abstract Algebra	**4.1** Measure Theory
1.2 Linear Algebra	**2.2** Complex Analysis	**3.2** Functional Analysis	**4.2 Specialization Papers (III & IV) (Choose Any Two Courses** • Linear Programming • Discrete Mathematics • Wavelet Analysis And Their Applications
1.3 Ordinary & Partial Differential Equations	**2.3** Topology	**3.3 Specialization Papers (I & II) (Choose Any Two Courses)** • Graph Theory and its Applications • Fluid Dynamics • Number Theory With Cryptography	
1.4 Statistical Methods	**2.4** Differential Geometry & Tensor Analysis		
1.5 Introduction To Matlab and Its Applications	**2.5** Technical Presentatin		**4.3** Mathematics Lab-VI
1.6 Mathematics Lab-I	**2.6** Mathematics Lab-III	**3.4** Elective (Departmental)	**4.4** Dissertation-II
1.7 Mathematics Lab-II	**2.7** Mathematics Lab-IV	**3.5** Mathematics Lab-V	
	2.8 Community Connect Course (CCC)	**3.6** Dissertation-I	



Department of Physics

The Department of Physics is involved in doing research in various areas of Materials Science like Ceramics, Super Capacitors, Solid Electrolytes, Ceramics and Ferrite materials. Apart from experimental areas, faculties are well experienced in High Energy Physics, Astroparticle Physics, and Medical Physics. In the field of high energy Physics and medical Physics, imageprocessing, magneto hydrodynamics and seminal research works have been carried out where as in the field of material science and technology, our faculty members are focused around synthesis and electrochemical application of nanomaterials, ceramics, Porous Carbon and Polymer electrolyte.

We have a fully equipped laboratory known as Material Research Laboratory (www.materialsresearchlab.net) where we have most important characterization tools like impedance spectroscopy, Keithleysource major unit, FTIR, UV absorption spectroscopy. Using specialized equipment, we are able to develop electrochemical devices like Solar Cells- Dye Sensitized Solar Cell (DSSC), Perovskite Solar Cell (PSC), Quantum Dot Sensitized Solar Cell (QDSSC), Super Capacitors-Electrochemical Double Layer Capacitor (EDLC), Sensors, Fuel Cells.

Programmes Offered

- B.Sc. (Hons.) in Physics
- M.Sc. in Physics
- Ph.D. in Physics

Career Prospects

M.Sc. Physics:

The student with M.Sc. (Physics) degree and having comprehensive knowledge of concepts in Physics has great opportunity for employment in private as well as Government Sector. Students have career opportunities in research labs, medicals lab, academic institutions and various government owned Scientific Research and Development Organizations. Students with M.Sc. (Physics) are eligible for the post of Scientist C in different research organizations such as ISRO, DRDO and BARC. Other than these options, a Physics graduate can go for higher studies like M.Sc. (Physics), Ph.D and MTech. from India and Abroad.

Government sector major recruiting organizations are

- Defense Research and Development Organization (DRDO)
- Physical Research Laboratory, Ahmedabad
- Saha Institute of Nuclear Physics, Kolkata
- Indian Space Research Organization (ISRO)
- Nuclear Science Centre New Delhi.
- Bhabha Atomic Research Centre (BARC)
- Oil and Natural Gas Corporation (ONGC)
- Bharat Heavy Electricals Limited (BHEL)
- National Thermal Power Corporation (NTPC)

Physics graduates can get Officer Job in other government sectors like: -

- Railway Officer
- State Bank of India (SBI)
- Staff Selection Commission
- Banking Sectors
- UPSC Geoscientist and other Government Sector Services.

B.Sc. (Physics)

The student with B.Sc. (Physics) degree and having comprehensive knowledge of concepts in Physics has great opportunity for employment in private as well as Government Sector. Students have career opportunities in research labs, medicals lab, academic institutions and various government owned Scientific Research and Development Organizations. Students with B.Sc. (Physics) have the option to appear in civil service exams conducted by UPSC. The students also have the opportunity to go for Higher Studies after B.Sc. (Physics) such as M.Sc. (Physics), MBA, MCA and other courses.

Laboratories

- Physics lab with dark room for Science graduate and postgraduate 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 Research Laboratory (materialsresearchlab.net)

The objective of Materials Research Lab is the development of novel solid state ionic materials and its device application and provide platform for researchers and students. Material Research Laboratory (MRL) is mainly focused around the development of modern materials and its successful application in energy devices like Solar Cells, Supercapacitors, Sensors,Fuel cells.

General Electives

- Physical Chemistry-I
- Foundation course in Maths
- Chemistry Lab-I
- Organic Chemistry-I
- Calculus-I
- Chemistry Lab-II
- Inorganic Chemistry-I
- Calculus-II
- Chemistry Lab-III
- Environmental Studies
- Fundamentals of MATLAB
- Community Connect

Department Specific Electives (DSE)

- Basic electronics
- Applied optics
- Renewable energy
- Materials Physics
- Synthesis of Materials
- Characterization of Materials
- Properties of Materials

Skill Enhancement Courses

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

Open Electives

- Mechanics beyond Newton (OPE 102)
- Nano Sciences and Technology (OPE 101)
- Preperation, characterization and application of Polymer Electrolyte (OPE 164)
- Nanomaterials for solar cell and photocatalytic activity (OPE 165)

Projects/Workshops/Conferences

- Fabrication of all solid photo-electrochemical solar cells03 | SBSR Brochure 2019-20 using polymer electrolytes (Rs. 3.0 Lacs plus salary of PI) sponsored by AICTE
- 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 ImportantMaterials
- 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, Energyand Environment
- Indo-Japan Conference on Frontier Nanomaterials for Energy (FNE – 2012) January 9 – 11, 2012
- International Conference on Science and Engineering of Materials (ICSEM – 2014) January 6 – 8, 2014
- National Conference on Functional Materials: State of Art –March 31 – April 1, 2017
- International Conference on Science and Engineering of Materials (ICSEM – 2018) January 6 – 8, 2018
- 3rd International Conference on Science and Engineering of Materials (ICSEM – 2019) July 19-21, 2019

Projects Completed

- Development of nano porous TiO2 electrode and modifiedsolid polymer electrolytes for Dye Sensitized Solar cells(DSSC) (Rs.18,14, 000) sponsored by DST.
- Development of High Dielectric Constant Polymer Composite for Pulsed Power System (Rs. 7,00,000) sponsoredby DRDO.
- Effect of Swift Ion Beam On Polymer Electrolyte Films (Rs. 22,58,534) sponsored by DST.
- Development of large area Dye Sensitized Solar cells (DSSC) using modified solid polymer electrolytes (Rs.

20,30,644)sponsored by DST.

- Development and characterization of ionic polymer blend membrane metal composites (IPMS) for the application of actuation devices (Rs. 31,35,000) sponsored by DRDO.

Ongoing Projects

- Development and characterization of swift response actuators using Carbon allotrope's based ionic polymer composites (Rs. 25,07,000) sponsored by DRDO.
- Synthesis of alkali ion (Li, Na and K) doped Bi FeO3 - Graphene oxide nanostructured materials for visible light photocatalytic application (Rs. 18,30,000) sponsored by SERB.

Projects Submitted

- Development of nano porous TiO2 electrode and Ionic liquid/Biopolymer solid polymer electrolytes based high efficient Dye Sensitized Solar cells (Rs. 12,00,000) to UPCST.
- Stable ionic liquid electrolyte and carbon allotropes based highly efficient supercapacitor (Rs. 39,09,246) to DST.
- Stable and efficient Dye Sensitized Solar Cell (DSSC) with 4% efficiency using solid polymer electrolyte (Rs. 29,92,640) to DST.
- Non-Porous carbon with polymer electrolytes for high performance Supercapacitor (Rs. 23,46,000) to CSTUP.
- Development of Novel Organic-Inorganic Hybrid Nanocomposite Polymer Electrolyte Materials for Next Generation Na-ion Batteries (Rs. 59,76,840) to BRICS.
- Artificial Intelligence based expert system for Ayurvedic drug discovery (Rs. 35,64,000) to DST.
- Activated carbon derived from bio-waste and its composites with Metal oxides for supercapacitors (Rs. 49,50,000).
- Thermoelectric cooling blanket for treating hyperthermia (Rs. 36,50,000) to BIRAC.
- A trap for male mosquitoes using an active acoustic device indirectly tunable to female wing beat Frequencies (Rs. 12,74,000) to BIRAC.
- Mathematical modeling of biomedical data using stochastic processes and inverse problems (Rs. 6,00,000) to SERB.

PROGRAMME STRUCTURE - B.Sc. (Hons.) Physics

FIRST YEAR		SECOND YEAR		THIRD YEAR	
TERM I	**TERM II**	**TERM III**	**TERM IV**	**TERM V**	**TERM VI**
COURSE	**COURSE**	**COURSE**	**COURSE**	**COURSE**	**COURSE**
1.1 Mechanics & props of matter	**2.1** Optics	**3.1** Solid State Physics	**4.1** Classical Mechanics & Relativity	**5.1** Quantum Mechanics	**6.1** Instrumentation
1.2 Physical Chemistry-1	**2.2** Organic Chemistry-1	**3.2** Inorganic Chemistry-1	**4.2** Mathematical Physics	**5.2** Applied Optics	**6.2** Renewable Energy
1.3 Foundation Course in Maths	**2.3** Calculus-1	**3.3** Calculus-2	**4.3** Basic Electronics	**5.3** Oscillations & Waves	**6.3** Atomic & Molecular Physics
1.4 C Programming	**2.4** Thermal Physics	**3.4** Electricity and Magnetism	**4.4** Nuclear Physics	**5.4** Analog Electronic Devices	**6.4** Digital Electronics
1.5 Basic/ Intermediate English	**2.5** Environmental Studies	**3.5** Biophysics & Radiation Science	**4.5** Electromagnetic Theory	**5.5** Statistical Mechanics	**6.5** Particle & Astrophysics
1.6 Physics Lab-1	**2.6** Physics Lab-2	**3.6** Open Elective	**4.6** Physics Lab-4	**5.6** Physics Lab-6	**6.6** Physics Lab-8
1.7 Chemistry Lab-1	**2.7** Chemistry Lab-2	**3.7** Physics Lab-3	**4.7** Physics Lab-5	**5.7** Physics Lab-7	**6.7** Physics Lab-9
		3.8 Chemistry Lab-3		**5.8** Dissertation 1	**6.8** Dissertation 2
		3.9 Community Connect Course			

PROGRAMME STRUCTURE - M.Sc. Physics

FIRST YEAR		SECOND YEAR	
TERM I	**TERM II**	**TERM III**	**TERM IV**
COURSE	**COURSE**	**COURSE**	**COURSE**
1.1 Classical Mechanics	**2.1** Electronics	**3.1** Electromagnetics	**4.1** Open Elective
1.2 Solid State Physics	**2.2** Renewable Energy Sources	**3.2** Specialization Paper-1	**4.2** Specialization Paper-3
1.3 Mathematical Physics	**2.3** Statistical Mechanics	**3.3** Specialization Paper-2	**4.3** Specialization Paper-4
1.4 Quantum Mechanics	**2.4** Atomic, Molecular Physics & Spectroscopic Techniques	**3.4** Nuclear & Particle Physics	**4.4** Dissertation-2
1.5 Fundamentals of MATLAB	**2.5** Advanced Quantum Mechanics	**3.5** Dissertation-1	
1.6 Physics Lab-1	**2.6** Physics Lab-3	**3.6** Specialization Lab	
1.7 Physics Lab-2	**2.7** Physics Lab-4		
	2.8 Community Connect Course		

Views that speak Excellence

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.

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 I made it to Wipro.

Ms. Bhawna Jain, M.Sc. Chemistry (Organic)

Here, the faculty members are very good and helpful. They have always helped me. I got my first job in Jubilant Chemsys, Noida as TRA.

Mr. Somesh Kumar Jha, B.Sc. Biochemistry

Regional Centre for Biotechnology, Faridabad

Sharda fosters multi-dimensional skills in students and enhances their overall personality. The faculty of Biochemistry and Chemistry have always been helpful in terms of career guidance and for letting us showcase our potential.

Mr. Abdulaziz Garba Ahmed , (M.Sc. Mathematics)

Research Assistant Fellow, National Mathematical Centre Abuja, Nigeria. Earning 1.3 million Niara.

The teaching and learning at Sharda University is excellent and comparable to the international standards.

Ms. Varsha Thakur, M.Sc. Food Science and Technology

I would love to thank all the faculties for doing such an amazing job !! Studying at Sharda surely has opened several doors.

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.

Ms. Vaishali Joshi, M.Sc. Biotechnology

Success is all about the hard work and perseverance that is put into it. I would like to thank all my academic and non-academic mentors of SBSR and the Placement Department for their support throughout the academic and placement sessions.

Higher Studies Abroad

National Chiao Tung University, Taiwan

Mr. K. James Singh
Pursuing Ph.D

University of Technology, Malaysia

Mr. Asif Yousuf
Pursuing Ph.D in Physics

Mr. Adil Hamid
Pursuing Ph.D in Physics

Wuhan University of Science and Technology, China

Ms. Kousar Jan
Pursuing Ph.D
(Material Science & Engineering)

Mr. Gaurav Nath
Pursuing MS in Physics
(Material Science & Engineering)

Mr. Tejas Sharma
Pursuing MS in Physics
(Material Science & Engineering)

Ms. Diksha Singh
Pursuing Ph.D
(Material Science & Engineering)

Admission Flow Chart

Step 1

Register Online at www.sharda.ac.in

Register Manually at Admission Cell, Sharda University OR Sharda Counselling Centres

- Enquiry registered
- System ID generated

- Information is provided on courses, eligibility criteria, fee, etc by Counsellor/Faculty
- Document verification is done

→ Exit if not eligible/ not interested

Eligible

Step 2

- Pay Application Fee
- Fill Application form

Step 3

Admission through SUAT

Admission through National/State Level Test JEE/CLAT/LSAT/CAT/MAT/XAT/NATA/NEET

Test ID & Password are issued

SUAT @ Sharda University

SUAT @ Pan India Centres

SUAT @ Home Based Proctor Enabled Test

Unsuccessful → Exit

Successful

Step 4

Appear for PI at Sharda University (GD as well in case of MBA)

Selected

Rejected → Exit

Step 5

Provisional Admission Offered

Programme fee deposited either through Cash/DD/Credit-Debit Card/Online

Registration/Matriculation (Document verification by School) → Commencement of Class

Greater Noida.
Hub of Education in Delhi-NCR.

Situated adjacent to New Delhi, Greater Noida is one of the fastest developing educational hubs. Home to some of the leading universities in India, Greater Noida sees lots of international students pursuing their career dreams.

India's first ISO 9000-2000 certified city, Greater Noida is amongst the cleanest, greenest and most well planned cities of India. Greater Noida is amongst the selected cities of the world, chosen for F1 Grand Prix Race.

Sharda University campus at Knowledge Park III is the largest in Greater Noida & the entire NCR.

> *"Greater Noida integrated township is shaping up as India's smartest city, the National Capital Region's most modern urban development centre and its fastest-developing centre of attraction. It has emerged as a modern model of far-sighted town planning."*

Notes

Regional Reach-
Sharda Counselling Centre

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