An Initiative of SGI

SHARDA UNIVERSITY
Beyond Boundaries

- School of Engineering & Technology
- School of Business Studies
- School of Dental Sciences
- School of Medical Sciences & Research
- School of Allied Health Sciences
- School of Creative Art, Design & Media Studies
- School of Law
- School of Basic Sciences & Research
- School of Architecture & Planning
- School of Humanities & Social Sciences
- School of Nursing Science & Research
- School of Education
- School of Pharmacy
- Sharda Hospital

SHARDA UNIVERSITY CAMPUS
Plot No. 32, 34, Knowledge Park-III,
Greater Noida (Delhi-NCR)-201310

Phone: 0120-4060210/11
Helpline: 0120-4570000
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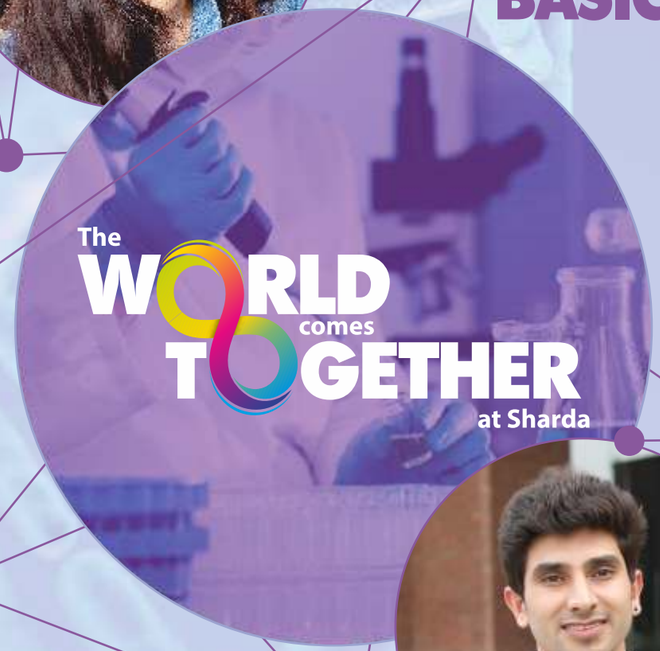
SHARDA UNIVERSITY
Beyond Boundaries

SCHOOL OF BASIC SCIENCES & RESEARCH



Sharda offers
endless possibilities to
do **research** and **innovation**

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The WORLD comes TOGETHER at Sharda

ON THE DOCKET

SHARDA UNIVERSITY

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

13 MULTI-DISCIPLINARY SCHOOLS
Schools in Engineering, Management, Law, Architecture, Medical, Dental, Nursing, Pharmacy, Allied Health, Basic Sciences, Media, Art & Design, Education and Humanities & Social Sciences.

1,200+ FACULTY FROM ACROSS THE GLOBE
Students learn from distinguished faculty from USA, UK, Greece, Singapore, Japan, Russian Federation & India among others.

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
Upto Rs.40 lac in scholarship is offered for Student StartUps through various programmes like Next StartUp, Syncubator and Xcelerator.

37,500+ PLACEMENTS OVER THE YEARS
Sharda students are working for MNCs & leading corporates like Tech Mahindra, Microsoft, Cadence, TCS, Cognizant, Amazon, HCL, Dell, Wipro among others.

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 degrees 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 with students from 80+ countries, and academic partnerships with 180+ universities across the world – the USA, the UK, Italy, Canada, Russia, Slovenia, et al, the University offers a truly international learning environment. That's why it says, "The World is Here, Where are You?"

GREAT PLACE TO STUDY | FORBES INDIA MARQUEE

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

FUTURE focussed learning **in science**

Unique **CHOICE** Based Credit System

MAXIMUM industry interaction

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.

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

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

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

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

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

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

7 **Interdisciplinary research centre "Centre for Advanced Research in Applied Mathematics and Physics" established in the school and funded by an international company ISHAAT SALMAN AL-TERAIS CONTRACTING CO. RIYADH, SAUDI ARABIA (KSA).**

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. H.S. Gaur
Dean, SBSR and Professor In-Charge, HoD (Agriculture)
LL.B. , M.Sc., Ph.D.

Obtained his M.Sc. with Golden Jubilee Medal and Ph.D. from IARI, New Delhi in 1975 and did post-doctorate research at Rothamsted Research, UK. He is a renowned nematologist, with 44 years experience. He was Dean & Joint Director, ICAR-IARI New Delhi (2006-13) and Vice- Chancellor, SVPUAT, Meerut (2013-16). He has to his credit over 340 publications. He was President, Vice-President and Editor-in-Chief of professional societies and recipient of several National, International awards and fellowships.

Prof. G R C Reddy, Vice-Chancellor
He was the Director of NIT Calicut, NIT Goa, Mentor Director of NIT Sikkim, Mentor Director of IIIT Kottayam, NIT Andhra Pradesh and also Director In-charge of NIT, Warangal during the period 2005-2017.
Prof. Reddy graduated from Osmania University with majors in Mathematics, Physics and Chemistry. He obtained his M.Sc. (Tech.) in Engineering Physics and Ph.D. from Faculty of Engineering and Technology, REC (NIT) Warangal. His research area focuses on Optical Information Processing. He joined as a faculty in the Department of Physics at NIT Warangal in 1979 and became full Professor in 1995. He was the principal investigator in a number of research projects sanctioned by CSIR, MHRD, and DRDO etc. He published over 80 research papers in various National and International journals/Conference proceedings. He is a Fellow of Optical Society of India, Member of SPIE and OSA. He is also Fellow of Telangana Academy of Sciences.

Dr. R. C. Singh, Professor (Physics) & CoE
M.Sc., Ph.D.
More than 32 years of experience. Published more than 25 research papers. Conferred Bharat Vidya Shiromani Award, Pride of International Education Excellence Award during Indo-Nepal Friendship Summit at Kathmandu, Star of Asia Award by International Business Council, New Delhi and the Global Achievers Foundation, Bharat Vibhushan Samman Puraskar, Lifetime Achievement Award by National & International Compendium, New Delhi. Intellectual quality excellence award, Albert Nelson Marquis Lifetime achievement award 2017. He has been the head of the department of Applied Sciences, Chief Hostel Warden, Chief Proctor, Dean (Students Welfare), Dean (Academics), Founder Controller of Examination of Sharda University; Director (Academics), Director of Different Engineering Institutions, Director of Internal Quality Assurance Cell and Dean of School during 1997-2019.

Dr. H. Surya Prakash Rao, Professor (Chemistry and Biochemistry) & Dean Research
Ph.D.
Ph.D. from the Indian Institute of Science in the area of stereochemistry of organic compounds and worked with Professor S. N. Balasubrahmanyam. He has done postdoctoral training in the USA and India (Rice University, Houston, Texas with Professor R. J. Parry, University of Minnesota, Minneapolis, Minnesota with Professor E. Leete and Hyderabad University with Professor Goverdhan Mehta) during 1980-1985. He was a visiting scientist in the University of Nijmegen, Nijmegen, The Netherlands during 1999-2000 and 2000-2002 with Professor Hans Schereen. He visited Taiwan in 2007 and USA in 2011, 2014 to give invited talks. He was a Lecturer (North Eastern Hill University, 1985-88), Reader (Pondicherry University, 1988-97), Professor (Pondicherry University, 1997-2018) before translocation to Sharda University.

Dr. Srinivasan, Professor & HoD (Life Science)
Ph.D.
M.Sc. and PhD. degrees in Biochemistry from the Banaras Hindu University. Joined the Indian Agricultural Research Institute as a Scientist in 1977. Since then, he has held several positions including Professor of Molecular Biology and Biotechnology and Project Director of NRC on Plant Biotechnology. After superannuation, served at NRCPB as an Emeritus Scientist. Did post-doctoral training at University of Washington, Seattle and The Scripps Research Institute, La Jolla, USA. Research encompasses a unique combination of plant biochemistry, enzymology, molecular biology, transgenic and genomics. Guided more than 20 Ph.D. and 5 M.Sc. students.

Dr. Pramod K. Singh, Professor & HoD (Physics & Environmental Science)
M.Sc., Ph.D.
20 years of teaching experience. Ph.D. (BHU, Varanasi), M.Sc. (Purvanchal University, Jaunpur), 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.
Apart from teaching B. Tech. and M. Tech. students, he has been involved in research in Polymer Electrolyte, Nanoporous materials for energy devices, Dye sensitized solar cell, Supercapacitors. He has completed one research projects and is working on one project on Material Science (DRDO), Govt. of India.

Dr. Shahana Majumder, Professor & HoD (Biotechnology)
M.Sc., Ph.D.
Completed her graduation from University of Delhi, and did her post graduation and Ph.D (Plant Pathology) from University of Kalyani, West Bengal. She has an overall research experience of 16 Years (excluding Ph.D). She has completed two externally funded projects by DBT and one is ongoing. Area of Interest is Molecular Diagnosis of Plant Viruses.

Dr. Rajesh Kumar, Professor (Environmental Science)
M.Sc., Ph.D.
Over 19 years of teaching and research experience. Published over 85 National and International research papers and presented about 40 papers. Excellent execution of various environment related research projects (nine) with an outlay of Rs. 3,26,73,949/- funded by both national and international funding agencies like USAID USA, South Asia Water Initiative (SAWI), ICIMOD, Kathmandu, Nepal, DST, ISRO and MOES, Govt. of India. Working in the area of Glaciology, Air Pollution, Hydro-Geochemistry and remote sensing. Has been interviewed more than 15 times by print and electronic media for glaciological research. Member of more than 10 reputed academic societies.

Dr. N.B. Singh, Professor (Chemistry)
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. Dr. Singh is a recipient of NETZSCH - ITAS Award. His citations are 2633, h index 25 and iTen 73. Publications-261 in SCI journals , 8 Books, 4 chapters in Edited book. He has over 50 years of experience.

Dr. Santosh Kumar Karn, Professor (Physics)
M.Sc., LL.B.; Ph.D., P.D.F. (Delhi University)
32 years experience in academics. Visiting Scientist / Professor / Fellow in Italy, Spain and India. Awardee of Albert Nelson Marquis Lifetime Achievement Award. His field of research is High Energy Physics- Quark Gluon Plasma; Astroparticle Physics- Neutron stars, quark and/ or diquark stars, binary stars; Cosmology- Early universe, FRW model; and Mathematical modelling.

Dr. Abul Hasan Siddiqi, Professor (Mathematics)
M.Sc., Ph.D.
He is actively engaged in teaching and research of diverse areas of Mathematics and its applications such as Functional Analysis, Approximation Theory, Vibrational Inequalities, Wavelet Analysis and Inverse Problems using wavelet.

Dr. Ashok Kumar, Professor (Physics)
M.Sc., Ph.D.
M.Sc. (Integrated) in Physics from I.I.T. Kanpur and Ph.D. in Solar & Space Physics from Johns Hopkins University, Baltmore (USA). Research experience at Massachusetts General Hospital & Harvard Medical School (USA) in Medical imaging and at standard university (USA) in Microfluidics. Recipient of U.S. Antarctica service Medal for research in Antarctica.

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. S. Packirisamy, Professor (Chemistry)
M.Sc., Ph.D.
39 years experience. Ex-Deputy Director, VSSC/ISRO and, Visiting Scientist, Michigan Molecular Institute, USA. Has to his credit 14 Patents, 5 Reviews/Book Chapters, 50 Research Papers in International journals and 80 papers presented in International/ National Conference. Principal investigator of ISRO sponsored research projects.

Mr. Alok Gupta, Adjunct Professor (Agriculture)
M.Sc. (Agri.), MBA, PGDRM, PGDAEM, Lead Auditor ISO 22000 (FSMS)
Specialization in Agriculture, Rural Development, Agricultural Extension and Agribusiness Mgmt. from G.B. Pant University of Agriculture Science and Technology, IRMA and National Institute of Agriculture Extension Management (MANAGE). 38 years of experience in Government, the World Bank and other reputed Agencies.

Dr. Vinay K. Verma, Associate Professor & HoD (Chemistry)
M.Sc., Ph.D.
14 years of research and teaching experience. A member of papers published in reputed International journals. Current research interest is to develop chemistry of Se and Te, organochalcoge substituted bioactive molecules and fluorescent materials for chemical.

Dr. Khursheed Alam, Associate 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. 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. Geeta Durga, Associate Professor (Chemistry)
M.Sc., NET (UGC-CSIR), Ph.D.
17 years of teaching and research experience. Published several research papers in journals of international repute & 3 Book chapters. Attended several short term courses. Research interest includes the development of polymer blends, composites, chemical sensor materials and water remediation.

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

Dr. Manish Sharma, Associate Professor (Physics)
M.Sc., Ph.D.
16 years experience. Six Sigma Green Belt from Motorola University, USA. Published more than 15 research papers. Filed 2 patent. Member of Materials Research Society of India.

Dr. Krishna K. Pandey, Assistant Professor (Physics)
M.Sc., Ph.D.
15 years experience. Research interest is Ultrasonic Attenuation studies due to electron-phonon interaction, phonon-phonon interaction, thermoelastic loss and dislocation damping in different type of solids, nanocrystalline systems.

Dr. Sangeeta Gupta, Assistant 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. Meenal Gupta, Assistant Professor (Physics)
D.Phil., Post Doctorate
11 years experience. Published 14 research papers in international journal, 3 book chapters. Life member of International Liquid Crystal Society. Current interest is to develop high quality super capacitors. Editor of SCIREA journal of Materials. 2 Research projects of reputed agencies.

Dr Noopur Srivastava, Assistant Professor (Chemistry)
M.Sc., Ph.D.
Ph.D. (CDRI) (CSIR), Lko), M.Sc., Lucknow University), CSIR -NET. More than 11 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, Assistant Professor (Chemistry)
M.Sc., Ph.D.
More than 9 years of teaching experience. 13 papers and 3 book chapter published in international journals. Experience in synthesis and characterization of metal complexes with N,S, donor legends.

Dr. Sweta Srivastav, Assistant 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. Alpna Mishra, Assistant 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. Suman, Assistant Professor (Environmental Science)
M.Sc., Ph.D.
11 years experience. Published 3 research papers in National and 1 research paper in International Journal.

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

Dr. Nidhi Sahni, Assistant 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. Mridula Guin, Assistant Professor (Chemistry and Biochemistry)
M.Sc., Ph.D.
Obtained her M.Sc. from Burdwan University and Ph.D. from IIT Bombay. She has published 10 research papers in journals of international repute. She has also completed a UGC sponsored minor research project. Her research area is focused on weak intermolecular interactions and solar energy systems.

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

Ms. Sandhya Gupta, Assistant 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. Richa Sharma, Assistant 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. Anshu Kumar, Assistant 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. Dipender Kumar, Assistant Professor (Agronomy)
M.Sc., Ph.D.
M.Sc. degree from SVPUAT, Meerut and Ph.D. from PAU, Ludhiana. Three years of teaching and research experience. Published 8 research papers in reputed scientific journals and presented papers in conferences.

Dr. Venus Dillu, Assistant 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. Harsimrut Kaur, Assistant Professor (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.

Mr. Paratpar Sarkar, Assistant Professor (Biochemistry)
B.Sc., M.Sc.
He has experience of 12 years in teaching and his teaching area are Enzymology, Biomolecules, Genetics, Hormonal Biochemistry, Membrane Biochemistry, Metabolism. He has qualified CSIR-UGC NET.

Dr. Vivek Srivastava, Assistant Professor (Biochemistry)
M.Sc., Ph.D.
2 years+ teaching experience and 9 years of research experience in the areas of Cancer Biology, Post-translation modification on proteins, Protein Biochemistry, Molecular Biology, DNA damage response pathway, etc. 8 papers in reputed international journals.

Dr. Prem Shankar Jha, Assistant 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. Mohd. Shahid Baboo, Assistant 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. Uzma Manzoor, Assistant Professor (Agriculture)
M.Sc., Ph.D.
Received her M.Sc. and Ph.D. degree in (Agriculture) Plant Protection (Spl. Entomology) from AMU, Aligarh. Was a DST-Inspire Fellow and has received two university gold medals. Published 16 research papers, 3 book chapters, 5 lead papers and a book.

Dr. Sunil Chauhan, Assistant 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. Preeti Rani, Assistant 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. Anindita De, Assistant Professor (Chemistry)
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. Sunil Kumar Jaiswal, Assistant Professor, (Life Sciences)
M.Sc., Ph.D.
M.Sc. (Biotechnology) from HP University, Shimla and Ph.D. (Biotechnology) from Kumaun University, Nainital. Areas of interest include Genetics, QTL mapping for kernel iron and zinc content in maize and marker assisted introgression of VTE4, crtRB1 and opaque2 genes for development of multi-nutrient rich maize.

Dr. Sharad Agrawal, Assistant Professor, (Life Sciences)
M.Sc., Ph.D.
Completed his M.Sc. and Ph.D. in Biotechnology, from Kurukshetra University Campus, Kurukshetra in 2017. Has expertise in enzyme production via SSF/SmF, protein purification, enzyme characterization etc.

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

Dr. Sujata Pandit Sharma, Assistant Professor (Life Sciences)
M.Sc., Ph.D.
Experience of more than 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. Richa Tomar, Assistant Professor (Chemistry)
Ph.D., NET-JRF
Total 5 years of teaching experience and 6 years of research experience. Ph.D. from Delhi University on Synthesis and Characterization of Complex Perovskites to study their electrical properties.

Dr. Sunny Dholpuria, Assistant Professor (Life Sciences)
M.Sc., Ph.D.
M.Sc. in Biotechnology from University of Jammu and Ph.D. in Animal Biotechnology from NDRI, Karnal. Qualified CSIR-NET JRF, DBT JRF, GATE (Biotechnology). Recipient of Combined Entrance JNU Exam Scholarship during M.Sc. degree. Published five research papers and one review article.

Dr. Roopali Prajapati, Assistant Professor (Chemistry and Biochemistry)
M.Sc., Ph.D.
Ph.D. research work was focused on understanding and unveiling the fundamental mechanism and dynamics of resonance excitation energy transfer from various photoexcited donors such as semiconductor quantum dots, carbon dots, and dyes to nearby metal nanoparticles and nanoclusters.

Dr. Nikhil Aggarwal, Assistant 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.

Dr. Preeti Jain, Assistant 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. Khushbu Kholia, Assistant Professor, (Agriculture)
M.Sc., Ph.D.
B.Sc. (Life Science) Kumaun University & M.Sc. (Horticulture) from G.B. Pant University of Agriculture & Technology, Pantnagar. Ph.D. (Horticulture, Fruit Science). 2 research paper published and 1 month training of polyhouse cultivation under Govt. of India at G.B. Pant University.

Dr. Anurag Tripathi, Assistant Professor, (Agriculture)
B.Sc., M.Sc., Ph.D.
B.Sc. (Agriculture) from U.A.S. Banglore, M.Sc. (Genetics & Pl. Breeding) and Ph.D. (Genetics & Pl. Breeding) from GBPUAT Pantnagar. Worked as SRF in IARI. Published 7 research paper, 3 Review Paper and 10 Article.

Ms. Neha Mishra, Assistant Professor (Life Sciences)
M.Tech., Ph.D. (Pursuing)
B.Tech. in Chemical Technology with specialization in Bio-Chemical Engineering from Harcourt Butler Technical University. M.Tech. in Food Processing and Technology from Gautam Buddha University, Greater Noida. Pursuing Ph.D. in Food Science & Technology.

NURTURING ENTREPRENEURIAL SPIRIT

"Innovation is life. Innovation brings change. Without innovation there is stagnation."This is the vision of Shri Narendra Modi, Hon'ble Prime Minister of India. Sharda University is proud to support Prime Minister's vision for #startupindia through Sharda Launchpad. The goal is to nurture and nourish entrepreneurial spirit in the entrepreneurial ecosystem.

Sharda Launchpad serves as a bridge between entrepreneurial experts and the prospective students so that they can learn from their experiences, knowledge and expertise through initiatives like short-term programmes, speaker sessions, industry interface and mentoring. Sharda Launchpad is supported by committed corporate partners, the angel investors, VC/PE firms and mentors from across the world. Over the last few years, Founders of Yourdost.com, Neostencil, Baluja Shoes, Voccaberry, Essar Oil and MentorX have mentored the young entrepreneurs of Sharda University.

3 programmes to Dream It, Pitch It and Stand It

What's unique about Sharda Launchpad is that it facilitates the entrepreneurial ideas through three different programmes: Next Startup - An ideation stage centre where student ideas are explored and evolved to look into efficacy of incubation; Syncubator - An incubator which will incubate selected projects and ideas through a formal incubation process and, Xcelerator - An accelerator which seeks to accelerate entrepreneurial start-ups who have reached a minimum threshold level. Therefore, Sharda Launchpad can assist budding start-ups at different levels of the entrepreneurial trajectory.

Upto Rs.40 lacs in Scholarship

The business ideas under the umbrella of Next Startup have primarily been categorized into four aspects namely: Science, Creative, Business and Social. These four aspects cover a spectrum of contemporary landscape. The prospective students who would be selected under this program would be offered Scholarship Amount upto Rs. 40 lacs, on admission to any of the University's Undergraduate Programmes.

Few success stories of the Sharda Launchpad

- Sharda Connect & Biz-port by Mr. Jithin Kumar (student of ECE B.Tech). He has devised a platform which will give access to connect the Shardan's with each other, knowing the programs, events, etc. Sharda Connect will help in making a better platform for all the members of Sharda University where people can connect.
- EAT ME a food truck business by Mr. Eshan Bhalla (student of MBA). It would offer foodies choicest of delicacies in Jammu, Jalandhar & Greater Noida. What's unique about EAT ME is that the trucks will keep on moving across locations depending on orders and the food will be cooked by specially trained Chefs. There will also be a GPS system to track the truck.
- Quadruped Mountain Climbing Robot by Mr. Ajay Kumar (student of BBA). He has developed a robot that can march through rough mountain terrain without tripping, constantly balancing itself.

Harvard Business School Online

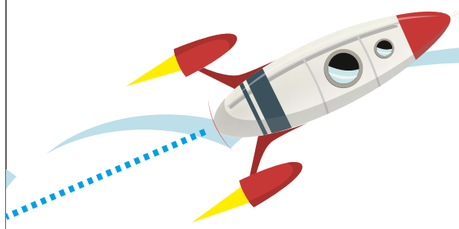
Collaboration with Harvard Business School

Sharda Launchpad has also taken the lead in launching various entrepreneurship programmes in partnership with Harvard Business School through Harvard Business School Online. Students can now apply for Harvard's very popular two courses namely: Entrepreneurship Essentials and Credentials of Readiness (CORe) and get the Harvard Honours here in India at minimal fees compared to the normal global rates particularly of the Ivy League institutions.

amazon web services™

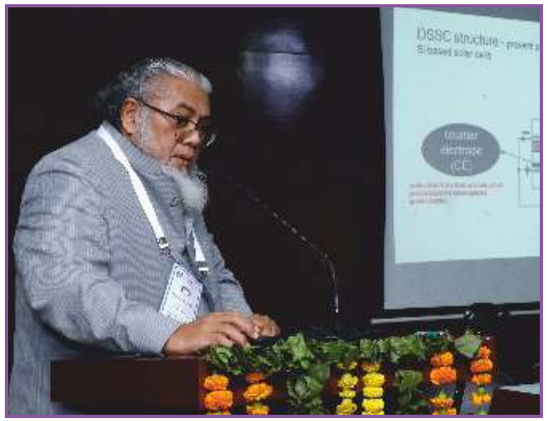
Tie-Up with Amazon Web Services in uplifting the incubates

The world leader in business, Amazon, through its unit Amazon Web Service (AWS), contributes to the entrepreneurial eco-system by supporting budding StartUps. By virtue of this association, SLP incubates will be entitled to an array of 118 services, including US$1000 in AWS promotional credit; and, AWS business support. Once the product is commercially viable it can be displayed in the Amazon store.



FOCUS ON ORGANISING MAXIMUM EVENTS

International Symposium on Computational Science & its Applications



Prof. Dr. Abdul Kariem Bin Hj Mohd Arof
Department of Physics, University of Malaya

Dr. Hee Woo Rhee,
Director of Research Center for Sansung Display Co.

Zimbabwe Delegation during their visit to Sharda

Dr. Nadeem Tarin, philanthropist and businessman from
Saudi Arabia being felicitated during the launch of
Centre for Advanced Research in Applied Mathematics and Physics

Prof. RC Singh, SBSR with international delegate during
International Symposium on Computational
Science & its Application

Prof. Zafar Ahsan, Former Chairman, Department
of Mathematics, Aligarh Muslim University

Orientation Programme of SBSR

National Conference on Materials and Devices (NCMD-2018)

INFRASTRUCTURE COMPARABLE WITH THE BEST

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

When you want to work together and make new friends you'll find yourself in a welcoming community filled with people from over 80+ 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



















THE SHARDA CAMPUS LIFE. TRULY EXTRAORDINARY!





SCIENCE PROGRAMMES DESIGNED FOR SUCCESS

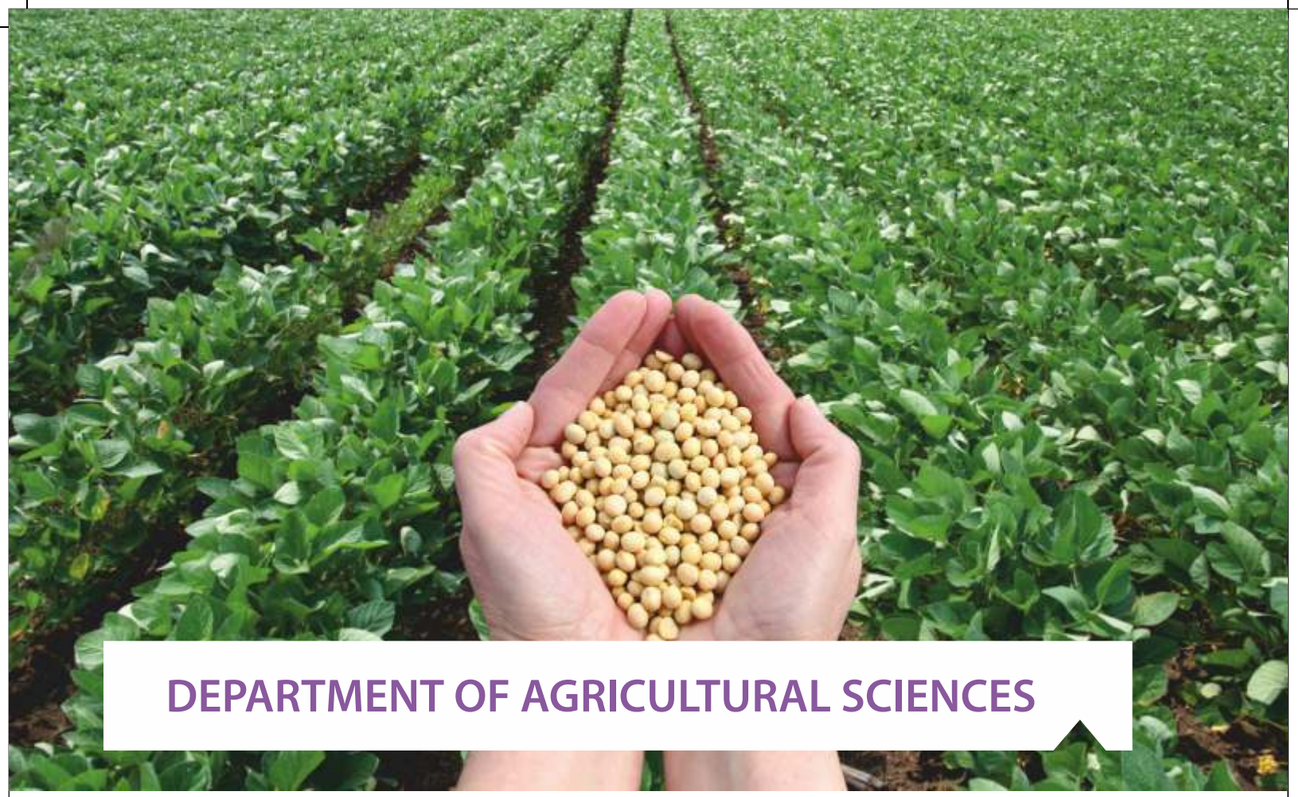
School of Basic Sciences & Research programmes are designed to develop science professionals focussed on doing innovative research for the benefit of mankind. Students are trained to make the most of the opportunities in prestigious organisations like ISRO, DRDO, BARC, CSIR, DST, MOES among others.

ज्ञान-विज्ञान विमुक्तये

APPROVED BY
UNIVERSITY GRANTS COMMISSION

PROGRAMMES OFFERED BY SBSR

B.Sc. (Hons.) - Agriculture		4 Years
B.Sc. (Hons.) - Bakery Sciences &Technology	(with AIBTM)	3 Years
B.Sc. (Hons.) - Bio-Chemistry		3 Years
B.Sc. (Hons.) - Biotechnology		3 Years
B.Sc. (Hons.) - Botany		3 Years
B.Sc. (Hons.) - Chemistry		3 Years
B.Sc. (Hons.) - Data Science & Analytics		3 Years
B.Sc. (Hons.)- Food Science & Technology		3 Years
B.Sc. (Hons.) - Horticulture		4 Years
B.Sc. (Hons.) - Mathematics		3 Years
B.Sc. (Hons.) - Microbiology		3 Years
B.Sc. (Hons.) - Physics		3 Years
B.Sc. (Hons.) - Zoology		3 Years
Integrated B.Sc. Hons. (Ag.) + MBA (Agribusiness)	(with SBS)	5 Years
PG Diploma in Bakery Technology Entrepreneurship	(with AIBTM)	1 Year
PG Diploma in Food Safety and Quality Management	(with AIBTM)	1 Year
PG Diploma in Patisserie & Artisan Bakery Craft	(with AIBTM)	1 Year
PG Diploma in Plant Protection		1 Year
M.Sc. - Biotechnology		2 Years
M.Sc. - Chemistry		2 Years
M.Sc. - Food Science & Technology		2 Years
M.Sc. - Mathematics		2 Years
M.Sc. - Microbiology		2 Years
M.Sc. - Physics		2 Years
M.Sc. - Water Resources & Environment		2 Years
M.Tech. - Energy and Environment Engg.		2 Years
M.Tech. - Nano Science & Technology		2 Years
Ph.D. in all Basic Sciences Subjects		Min. 3Years



DEPARTMENT OF AGRICULTURAL SCIENCES

B.Sc. (Hons.) Agriculture, and B.Sc. (Hons.) Horticulture programmes are based on Choice Based Course Curricula recommended by the Fifth Deans' Committee of ICAR. These programmes include about 180 credit hours of theory, practical and on-farm projects and exposure over 8 semesters. The students are required to take open electives and Community Connect Courses.

The curriculum includes knowledge of fundamental and applied aspects of modern scientific instrumentation, machinery and techniques in plant and animal based farming systems, land surveying, soil and water resource management, livestock and poultry management, basics of biotechnology, sociology, economics, Agri-Business, extension etc. The students are trained to solve problems of agricultural and open field and protected enclosed horticultural systems, manage processes and products. The thrust is to evolve biosafe and ecofriendly high value agricultural production systems.

Besides Indian students a large number of students from abroad are also undergoing these courses at this University. B.Sc. (Hons.) Agriculture has greater emphasis on field crop productions systems. B.Sc. (Hons.) Horticulture has been gaining importance since emphasis is on production, processing and business aspects of horticultural crops including fruits, vegetables, flowers, landscaping, medicinal plants etc. that provide more income from smaller areas of land and provide more employment opportunities.

Career Prospects

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

Integrated B.Sc. Ag. + MBA-Agribusiness course is a five year (10 Semester) Course imparted jointly by the Department of Agricultural Sciences and the School of Business Studies.

The course trains the student in various aspects of agriculture and horticulture as well as in principles and practices of the business in agro-industry, marketing, international import/export, retail and bulk trading, manpower management and other relevant aspects of business management. It is aimed at upgrading the students to be able to manage national and international agri-entrepreneurships and business systems.

The **PG Diploma in Plant Protection (PGDPP)** is a one year, two semester course after B.Sc. in Agriculture/ Horticulture/ Biological Sciences, run in collaboration with reputed agrochemical companies, including Dhanuka Agritech Ltd. During this course the students will be imparted a field training by the sponsoring company who will also pay a stipend and allowances. After successful completion the students will be offered relevant job in the company with the pay-package prevailing then.

Ph.D. programme is of three year duration, in a branch, subject to specialization of the available faculty.

ESTABLISHMENT OF APIARY IN SHARDA UNIVERSITY

An apiary has been established in the campus of Sharda University to eventually develop a nucleus nursery to ensure quality supply of bee colonies by selection and mass queen rearing. The modern facilities of bee breeding for mass multiplication of quality honey bee colonies will be created in the University. Development of indigenous methods for pest and disease control will be carried out. The setting up of an apiary unit well versed with scientific knowledge will serve the purpose of overall development/ promotion of Scientific Beekeeping in the NCR Region.

Beekeeping is an ideal agro-based subsidiary enterprise providing supplementary/major income to the farmers/ people in rural areas. This profession has proved to be a very good enterprise which with little efforts adds considerable income to improve the socio-economic status of the rural families and generation of employment. Honeybees provide not only honey and bee wax but also even more valuable substances like pollen, royal jelly, bee venom, propolis, etc. which have high medicinal and export value. This Apiary will be used to train youth, educate students and research on scientific bee-keeping.

ORGANIC TOMATO PRODUCTION IN PROTECTED CULTIVATION SYSTEM

A low cost naturally ventilated insect proof Polyhouse has been established for demonstration and training students in protected cultivation systems.

Cherry and normal tomatoes, bellpapers and cucumbers free of pesticides and toxic heavy metals are produced. The students also learn techniques of storage, packaging and marketing of agriproduce for high profit from farming.

COURSE STRUCTURE - B.Sc. (Hons.) Agriculture

FIRST YEAR		SECOND YEAR		THIRD YEAR		FOURTH YEAR	
TERM I	TERM II	TERM III	TERM IV	TERM V	TERM VI	TERM VII	TERM VIII
COURSE	COURSE	COURSE	COURSE	COURSE	COURSE	COURSE	COURSE
1.1 Agricultural Heritage	**2.1** Fundamentals of Plant Pathology	**3.1** Crop Production Technology-I (Kharif crops)	**4.1** Crop Production Technology-II (Rabi crops)	**5.1** Principles of Integrated Pest and Disease Management	**6.1** Rainfed Agriculture & Watershed Management	**7.1** General Orientation & On campus training by different faculties	**8.1** Production Technology for Bioagents and Biofertilizer
1.2 Fundamentals of Soil Science	**2.2** Fundamentals of Agricultural Microbiology	**3.2** Fundamentals of Plant Breeding	**4.2** Production Technology for Ornamental Crops MAP and Landscaping	**5.2** Manures Fertilizers and Soil Fertility Management	**6.2** Protected Cultivation and Secondary Agriculture	**7.2** Village Attachment	**8.2** Seed Production and Technology
1.3 Introductory Forestry	**2.3** Fundamentals of Genetics	**3.3** Agricultural Finance and Cooperation	**4.3** Renewable Energy and Green Technology	**5.3** Pests of Crops and Stored Grain and their Management	**6.3** Diseases of Field and Horticultural Crops and their Management-II	**7.3** Unit Attachment in University/ College. KVK/ Research Station Attachment	**8.3** Mushroom Cultivation Technology
1.4 Fundamentals of Agronomy	**2.4** Fundamentals of Crop Physiology	**3.4** Agri-Informatics	**4.4** Problematic Soils and their Management	**5.4** Diseases of Field and Horticultural Crops and their Management -I	**6.4** Post-harvest Management and Value Addition of Fruits and Vegetables	**7.4** Plant Clinic	**8.4** Soil Plant Water and Seed Testing
1.5 Fundamentals of Horticulture	**2.5** Introductory Soil & Water Conservation Engineering	**3.5** Farm Machinery and Power	**4.5** Production Technology for Fruit and Plantation Crops	**5.5** Crop Improvement-I (Kharif Crops)	**6.5** Management of Beneficial Insect	**7.5** Agro-Industrial Attachment	**8.5** Commercial Beekeeping
1.6 Fundamentals of Rural Sociology, Educational Psychology	**2.6** Fundamentals of Agricultural Economics	**3.6** Production Technology for Vegetables and Spices	**4.6** Principles of Seed Technology	**5.6** Entrepreneurship Development and Business Communication	**6.6** Crop Improvement-II (Rabi crops)	**7.6** Project Report preparation Presentation and Evaluation	**8.6** Commercial Horticulture
1.7 Functional Basic English-1	**2.7** Fundamentals of Entomology	**3.7** Environmental Studies and Disaster Management	**4.7** Farming System & Sustainable Agriculture	**5.7** Geoinformatics and Nano-Technology and Precision Farming	**6.7** Practical Crop Production-II (Rabi crops)		**8.7** Organic Production Technology
1.8 Functional Intermediate English-1	**2.8** Fundamentals of Agricultural Extension Education	**3.8** Livestock and Poultry Management	**4.8** Agricultural Marketing Trade & Prices	**5.8** Practical Crop Production-I (Kharifcrops)	**6.8** Principles of Organic Farming		
1.9 Foundation course in Mathematics		**3.9** Statistical Methods	**4.9** Introductory Agro-meteorology & Climate Change		**6.9** Farm Management Production & Resource Economics		
1.10 Introduction to Life Sciences					**6.10** Principles of Food Science and Nutrition		

https://www.sharda.ac.in/programmes/bsc-agriculture

COURSE STRUCTURE - B.Sc. (Hons.) Horticulture

FIRST YEAR		SECOND YEAR		THIRD YEAR		FOURTH YEAR	
TERM I	TERM II	TERM III	TERM IV	TERM V	TERM VI	TERM VII	TERM VIII
COURSE	COURSE	COURSE	COURSE	COURSE	COURSE	COURSE	COURSE
1.1 Economics and Marketing	**2.1** Tropical and Sub-tropical Fruits	**3.1** Fundamentals of Entomology	**4.1** Soil, water and Plant Analysis	**5.1** Organic Farming	**6.1** Apiculture, Sericulture and Lac culture	**7.1** Student Ready: Placement in Industries	**8.1** Protective Cultivation of High Value Horticulture Crops
1.2 Elementary Plant Biochemistry	**2.2** Tropical and Sub-tropical Vegetables	**3.2** Temperate Vegetable Crops	**4.2** Spices and Condiments	**5.2** Introduction to Major Field Crops	**6.2** Insect Pests of Vegetable, Ornamental and Spice Crops	**7.2** Student Ready: Placement in Villages	**8.2** Processing of Fruits and Vegetables for Value addition
1.3 Introductory Crop Physiology	**2.3** Principles of Plant Breeding	**3.3** Nematode Pests of horticultural Crops and their Management	**4.3** Ornamental Horticulture	**5.3** Medicinal and Aromatic Crops	**6.3** Post-harvest Management of Horticultural Crops		**8.3** Floriculture and Landscape Architecture
1.4 Principles of Landscape Architecture	**2.4** Soil Fertility and Nutrient Management	**3.4** Diseases of Fruit, Plantation, Medicinal and Aromatic Crops	**4.4** Plantation Crops	**5.4** Introductory Agroforestry	**6.4** Seed Production of Vegetable, Tuber and Spice Crops		**8.4** Bio-inputs: Bio-fertilizers and Bio-Pesticides
1.5 Principles of Genetics and Cytogenetics	**2.5** Water Management in Horticultural Crops	**3.5** Fundamentals of Food Technology	**4.5** Breeding of Fruit and Plantation Crops	**5.5** Breeding of Vegetables, Tuber and Spice Crops	**6.5** Breeding and Seed Production of Flower and Ornamental Plants		**8.5** Mass Multiplication of Plant and Molecules through Tissue culture
1.6 Introductory Microbiology	**2.6** Plant Propagation and Nursery Management	**3.6** Temperate Fruit Crops	**4.6** Farm Power and Machinery	**5.6** Diseases of Vegetables, Ornamentals and Spice crops	**6.6** Processing of Horticultural Crops		**8.6** Mushroom Cultivation Technology
1.7 Communication skills and Personality Development	**2.7** Growth and Development of Horticultural Crops	**3.7** Weed Management in Horticultural Crops	**4.7** Insect Pests of Fruit, Plantation, Medicinal & Aromatic Crops	**5.7** Orchard and Estate Management	**6.7** Horti-Business Management		**8.7** Commercial Bee keeping
1.8 Elementary Statistics and Computer Application	**2.8** Physical and Health Education (NC)*	**3.8** Commercial Floriculture	**4.8** Precision Farming and Protected Cultivation	**5.8** Agro-Meteorology and Climate Change	**6.8** Entrepreneurship Development and Business Management		**8.8** Commercial Horticulture
1.9 Fundamentals of Horticulture	**2.9** Information and Communication Technology (NC)*	**3.9** Elementary Plant Biotechnology	**4.9** Dryland Horticulture	**5.9** Potato and Tuber Crops	**6.9** Fundamentals of Extension Education		
1.10 Fundamentals of Soil Science	**2.10** Environmental Studies and Disaster Management	**3.10** Fundamentals of Plant Pathology					
1.11 National Service Scheme/National Cadet Corp (NC)*							

https://www.sharda.ac.in/programmes/bsc-horticulture

COURSE STRUCTURE - Integrated B.Sc. (Hons.) Ag. + MBA (Agribusiness)

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 Agricultural Heritage	**2.1** Fundamentals of Plant Pathology	**3.1** Crop Production Technology-I (Kharif Crops)	**4.1** Crop Production Technology-II (Rabi Crops)	**5.1** Principles of Integrated Pest and Disease Management	**6.1** Rainfed Agriculture & Watershed Management
1.2 Fundamentals of Soil Science	**2.2** Fundamentals of Agricultural Microbiology	**3.2** Fundamentals of Plant Breeding	**4.2** Production Technology for Ornamental Crops, MAP and Landscaping	**5.2** Manures, Fertilizers and Soil Fertility Management	**6.2** Protected Cultivation and Secondary Agriculture
1.3 Introductory Forestry	**2.3** Fundamentals of Genetics	**3.3** Agricultural Finance and Cooperation	**4.3** Renewable Energy and Green Technology	**5.3** Pests of Crops and Stored Grain and their Management	**6.3** Diseases of Field and Horticultural Crops and their Management-2
1.4 Fundamentals of Agronomy	**2.4** Fundamentals of Crop Physiology	**3.4** Agri-Informatics	**4.4** Problematic Soils and their Management	**5.4** Diseases of Field and Horticultural Crops and their Management-1	**6.4** Post-Harvest Management and Value Addition of Fruits and Vegetables
1.5 Fundamentals of Horticulture	**2.5** Introductory Soil & Water Conservation Engineering	**3.5** Farm Machinery and Power	**4.5** Production Technology for Fruit and Plantation Crops	**5.5** Crop Improvement-1 (Kharif Crops)	**6.5** Management of Beneficial Insect
1.6 Fundamentals of Rural Sociology, Educational Psychology	**2.6** Fundamentals of Agricultural Economics	**3.6** Production Technology for Vegetables and Spices	**4.6** Principles of Seed Technology	**5.6** Entrepreneurship Development and Business Communication	**6.6** Crop Improvement-II (Rabi Crops)
1.7 Functional Basic English-1	**2.7** Fundamentals of Entomology	**3.7** Environmental Studies and Disaster Management	**4.7** Farming System & Sustainable Agriculture	**5.7** Geoinformatics and Nano-Technology and Precision Farming	**6.7** Practical Crop Production-II (Rabi Crops)
1.8 Functional Intermediate English-1	**2.8** Fundamentals of Agricultural Extension Education	**3.8** Livestock and Poultry Management	**4.8** Agricultural Marketing Trade & Prices	**5.8** Practical Crop Production-1 (Kharif Crops)	**6.8** Principles of Organic Farming
1.9 Foundation Course in Mathematics		**3.9** Statistical Methods	**4.9** Introductory Agro-Meteorology & Climate Change		**6.9** Farm Management, Production & Resource Economics
1.10 Introduction to Life Sciences					**6.10** Principles of Food Science and Nutrition
			Elective • Agribusiness Management • Landscaping • Food Safety and Standards • Protected Cultivation • Hi-Tech. Horticulture • Agricultural Journalism		

https://www.sharda.ac.in/programmes/integrated-bsc-mba

FOURTH YEAR		FIFTH YEAR	
TERM VII	**TERM VIII**	**TERM IX**	**TERM X**
COURSE	**COURSE**	**COURSE**	**COURSE**
7.1 Seed Production & Processing Technology Attachment & Report	**8.1** Management Process & Organization Behaviour	**9.1** Managing Human Resources	**10.1** Strategic Management
7.2 Soil, Plant, Water and Seed Testing Attachment and Report	**8.2** Marketing Management	**9.2** Business Research	**10.2** Agribusiness Supply Chain Management
7.3 Protected Cultivation Systems Attachment and Report	**8.3** Managerial Economics	**9.3** Financial Management	**10.3** International Agribusineess & Trade
7.4 Village Attachment and Report	**8.4** Accounting for Business	**9.4** Production & Operations Management	**10.4** TBD
7.5 Agro-Industrial Attachment and Report	**8.5** Quantitative Techniques	**9.5** Project Management	**10.5** Elective-I
7.6 Unit attachment in University/ College. KVK/ Research Station Attachment and Report	**8.6** Economic Environment for Agribusiness	**9.6** Agripreneurship & Innovation	**10.6** Elective-II
	8.7 Contemporary Issues in Agribusiness	**9.7** Business Laws & Ethics	**10.7** Elective-III
	8.8 Managerial Communication	**9.8** Summer Internship Project	**10.8** Elective-IV
			Electives (Any Four) • Food & Retail Management • Commodity Markets & Risk Management • Management of Contract Farmng • Agribusiness Post harvet Management • AgriBusiness Analytics • Live-Stock Management

COURSE STRUCTURE - PG Diploma in Plant Protection (PGDPP)

TERM I	TERM II
COURSE	COURSE
1.1 Introduction to Plant protection	**2.1** Biological Control for Plant protection
1.2 Crops, Insects and Diseases and their Management	**2.2** Agrochemicals & Formulations
1.3 Principles and Practices of Weed Management	**2.3** Agricultural Extension System
1.4 Agricultural Procurement Management	**2.4** Agricultural Marketing Management
1.5 Accounting for Managers	**2.5** Management of Agri-Inputs
1.6 Management of Agri –Inputs	**2.6** Financial Management
1.7 Minor Project 1	**2.7** Minor Project 2
1.8 Open Elective Course	**2.8** Open Elective Course
1.9 Communication Skills-I	**2.9** Communication Skills-II
1.10 Behavioral Science-I	**2.10** Behavioral Science-II
1.11 Foreign Language – I	**2.11** Foreign Language – II

https://www.sharda.ac.in/programmes/integrated-bsc-mba

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 polymer lab

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

COURSE 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

https://www.sharda.ac.in/programmes/bsc-hons--chemistry

COURSE 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

https://www.sharda.ac.in/programmes/bsc-biochemistry

COURSE 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		

https://www.sharda.ac.in/programmes/msc-chemistry

DEPARTMENT OF ENVIRONMENTAL SCIENCES

The Department of Environmental Science came into existence with the formation of new school namely School of Basic Sciences and Research (SBSR) in August 2013. Apart from a post graduate courses of M.Tech. Energy and Environmental Engineering and M.Sc. in Water Resources and Environmental Management, the Department offers Ph.D. in Environmental Science, where we have achieved a land mark of producing two DAAD Fellow and two students are working in Lulea University Sweden as Post Doc Fellow. The Department is having good research programmes funded by national and international agencies and is offering fellowships (JRF/SRF/RA) to 3 students at present through these fundings. The Department is one of the pioneering private departments involved in the glaciological research with its own observatories in the high Himalaya (on the glacier site) funded by National and International organisations through research programmes.

The main areas of ongoing research-Air pollution, Himalayan Glaciology, Glacier Melt Water Chemistry, Glacio-hydrological Modelling, Meteorological Studies, Air Pollution Modelling, Remote Sensing and GIS etc.

Programmes Offered

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

Career Prospects

- Pollution Control Boards
- Hydropower/Thermal Power Projects
- Climate Change Organisations
- Environmental Forecasting
- Remote Sensing Organisations
- Infrastructure Development Companies
- Water and Wastewater Treatment Plants and Industries running and maintaining them
- UNDP, UNEP, NDMA and Environmental NGO's
- Groundwater and Surface Water Development Agencies
- Academics (Ph.D. and Research)

Workshops/Conferences (National & International)

- 19th edition of International Conference on Cryptology (INDOCRYPT - 2018) jointly organised by Scientific Analysis Group (SAG), DRDO, Delhi and Sharda University, Greater Noida during December 09-12, 2018 held at India Habitat Centre, New Delhi. Sponsors: NBHM, Bharat Electronics, TCS, Google, Microsoft Research, Cryptology Research Society of India, International Association of Cryptology Research and Springer; Participants 190 (International 22). Jointly organised by SET, RTDC & SBSR.
- "National Instructional Workshop on Cryptology (NIWC-2017)" during October 06-08, 2017 at RTDC, Sharda University, Greater Noida, Funding CRSI. Jointly organised by RTDC & SBSR.
- Guest Lecture by Prof. J Narayan is 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 Sharda University, Gr. Noida on December 15, 2017.

- "Mind Matters" a talk by Mr. Rahul Pandey organised on April 7, 2015, Room No. 102, SET-III, Sharda University.
- International Conference on "Multifunctional Materials Energy and Environment" held during August 21-23, 2013 at Sharda University, Greater Noida, India
- "Workshop on Positive Degree Day Modelling of Glaciers" during 28th -29th September, 2012 at Sharda University, Greater Noida, Funding Agency: South Asia Water Initiative (SAWI), Abu Dhabi Dialogue Knowledge Forum, Small Grants Programme (ADDKFSGP)
- "National Conference on Semiconducting Materials and Nano Devices", during September 14-15, 2012, RTDC, Sharda University, Greater Noida, India
- "National Seminar on Futuristic Materials for Device Applications" on July 27, 2012 organised by Research and Technology Development Centre, Sharda University and Sponsored by Defence Research and Development Organization, New Delhi

Environmental Awareness Events

- **"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

Research Projects Funded By National/international Organisation: 06

Sponsored Projects (ONGOING)-4 Nos.: Grant Rs. 1,65,46,749.00

- "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
- Estimation of glacier mass balance, glacier dynamics and surface flow using UAV's (Unmanned Aerial Vehicles) in Baspa Basin, Himachal Pradesh Sponsored by Ministry of Earth Science, Govt. of India, Grant- Rs. 49,73,053.00
- Capacitive Micro-machined Ultrasonic transducer (cMUT) for Medical Imaging and Under Water Communication Sponsored by SERB, DST, Govt. of India, Grant- Rs. 36,33,696.00
- Study of Glacio-hydrological Processes at Naradu Glacier, Western Himalaya, Sponsored by SPLICE, DST, Govt. of India, Grant-Rs. 59,40,380.00

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 (~ Rs. 75,86,500.00 @65/USD)
- 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 (~ Rs. 17,00,000.00)

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

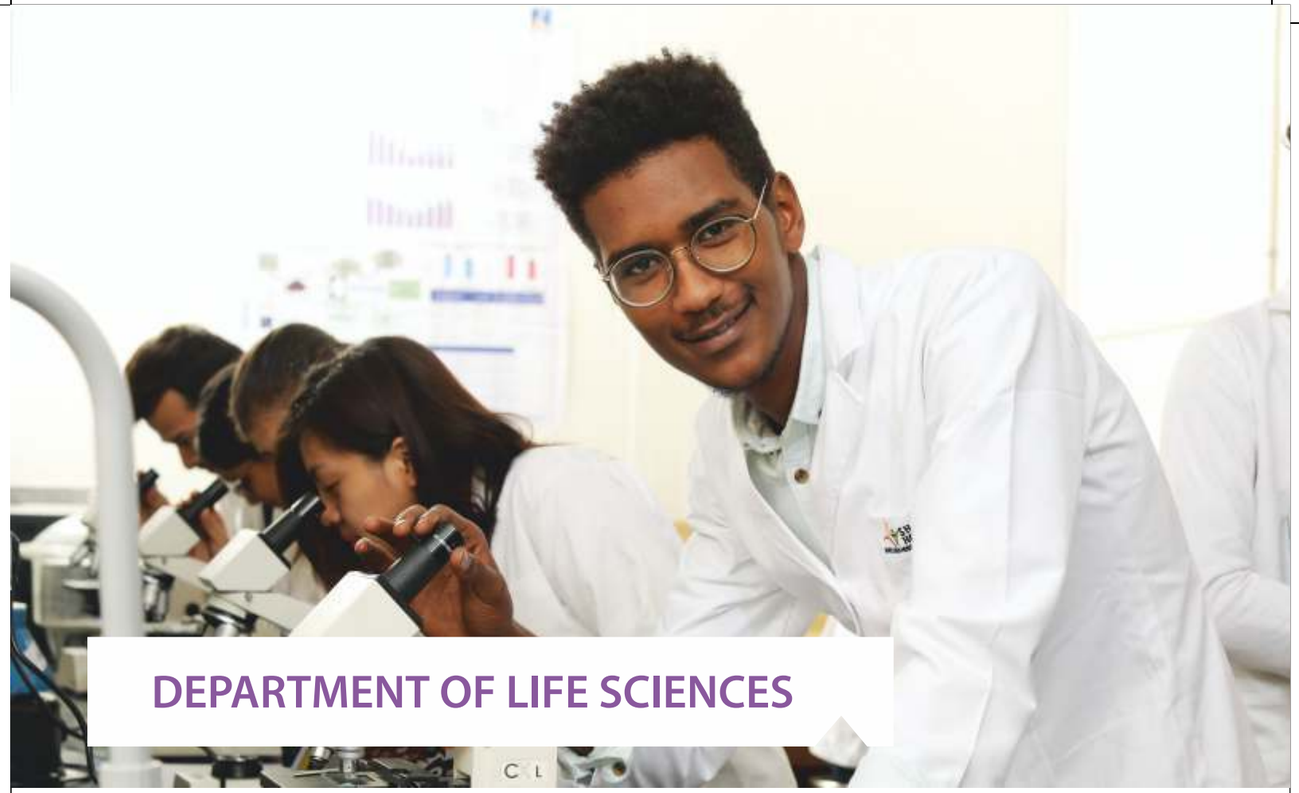
FIRST YEAR		SECOND YEAR	
TERM I	**TERM II**	**TERM III**	**TERM IV**
COURSE	**COURSE**	**COURSE**	**COURSE**
1.1 Water Resources & Management	**2.1** Environmental Law, Policy & Audit	**3.1** Environmental Impact & Risk Assessment	**4.1**Dissertation
1.2 Environmental Chemistry	**2.2** Climate Change & Sustainable Development	**3.2** Water Purification & Treatment Processes	
1.3 Environmental Pollution	**2.3** Environmental Toxicology	**3.3** Research Methodology	
1.4 Hydrology	**2.4** Glaciology & Climate Change	**3.4** Basics of Instrumentation	
1.5 Technical Presentation	**2.5** Remote Sensing & GIS	**3.5** Dissertation-1	
1.6 Water Pollution & Monitoring Lab	**2.6** Remote Sensing & GIS Lab	**3.6** Environmental Data Analysis Lab	

https://www.sharda.ac.in/programmes/msc-water-resource-management

COURSE STRUCTURE - M.Tech. Energy and Environment

FIRST YEAR		SECOND YEAR	
TERM I	**TERM II**	**TERM III**	**TERM IV**
COURSE	**COURSE**	**COURSE**	**COURSE**
1.1 Energy Sources and Global Scenario	**2.1** Water Resources and Waste Water treatment	**3.1** Seminar	**4.1** Dissertation
1.2 Sustainable Development	**2.2** Solid & Hazardous Waste Management	**3.2** Project	
1.3 Earth, Ecology and Environment	**2.3** Environmental Impact Assessment and Audits	**3.3** Dissertation	
1.4 Environmental Chemistry	**2.4** Energy Auditing & Management/ Concepts of Global Climate Change/Remote Sensing & GIS		
1.5 Air Pollution and Control	**2.5** Environmental Biotechnology/ Biodiversity & Conservation		
1.6 Technical Presentation	**2.6** Technical Presentation Skill		
1.7 Physicochemical Processes Lab (Practical)	**2.7** Air Pollution and Control Lab (Practical)		

https://www.sharda.ac.in/programmes/mtech-energy-and-environmental



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, Botany and Zoology. With the aim of further expanding the field of Food Technology, the Department has launched new programmes such as B.Sc. in Bakery Science & Technology Entrepreneurship, B.Sc. in Cereal Processing and Technology, M.Sc. in Food Processing & Technology, and M.Sc. in Food Safety and Quality Management Systems. 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.) in Biotechnology
B. Sc. (Hons.) in Botany
B. Sc. (Hons.) in Zoology
B. Sc. (Hons.) in Food Science and Technology
B. Sc. (Hons.) in Microbiology
B.Sc. (Hons.) in Bakery Science & Technology Entrepreneurship
M.Sc. in Biotechnology
M.Sc. in Microbiology
M.Sc. in Food Science and Technology
PG Diploma in Bakery Technology & Entrepreneurship
PG Diploma in Food Safety and Quality Management
PG Diploma in Patisserie & Artisan Bakery Craft
Ph.D. in Life sciences
Ph.D. in Food Science and Technology

Career Prospects

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

Laboratories

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

- Cell and Molecular Biology Laboratory
- Microbiology Laboratory
- Plant Tissue Culture Laboratory
- Animal Cell Culture Laboratory
- Virology Laboratory
- Biochemistry & Enzyme Engineering 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
- Wildlife conservation and Management
- Applied Zoology
- Biofertilizers

Project/Workshop/ Conferences (National & International)

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

COURSE 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 Chemistry	**2.1** Physics V	**3.1** Molecular Biology	**4.1** Genetic Engineering	**5.1** Animal Biotechnology	**6.1** Bioreactors and Downstream Processing
1.2 Cell Biology	**2.2** Functional English I	**3.2** Biomolecules	**4.2** Enzyme Technology	**5.2** Plant Biotechnology	**6.2** Genomics
1.3 Environmental Science	**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** Anatomy of Angiosperms/ Human Physiology and Histology-I	**4.4** Metabolic Pathways	**5.4** Intellectual Property Rights	**6.4** Industrial Biotechnology
1.5 Principle of Nutrition Science/Diversity of Animals (GE)	**2.5** Introduction of Food Biotechnology/ Diversity of Plants (GE)	**3.5** Instrumentation/ Phycology and Mycology	**4.5** Medical Biotechnology/ Applied Microbiology	**5.5** Medical Microbiology/ Economic Botany	**6.5** Bioethics and Biosafety/Environmental Biotechnology
1.6 Chemistry Lab-I (GE)	**2.6** Microbiology Lab	**3.6** Molecular Biology Lab	**4.6** AECC	**5.6** Plant Biotechnology Lab	**6.6** Downstream Processing Lab
1.7 Cell Biology Lab (C)	**2.7** Physics Lab (GE)	**3.7** Biomolecules Lab	**4.7** Genetic Engineering Lab	**5.7** Bioinformatics Lab	**6.7** Genomics and Proteomics Lab
			4.8 Enzyme Technology & Immunology Lab	**5.8** Project I/ Dissertation I	**6.8** Project2/ Dissertation 2 (DSE)

https://www.sharda.ac.in/programmes/bsc-biotechnology

COURSE STRUCTURE - B.Sc. (Hons.) Botany

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 (GE)	**2.1** Physics-V	**3.1** Mycology and Phycology (C)	**4.1** Developmental Biology of Plants (C)	**5.1** Plant Metabolism (C)	**6.1** Plant Ecology (C)
1.2 Cell Biology (C)	**2.2** Statistics and Probability	**3.2** Anatomy of Angiosperms (C)	**4.2** Genetic Engineering (C)	**5.2** Plant Biotechnology (C)	**6.2** Genomics (C)
1.3 Environmental Science	**2.3** Microbiology	**3.3** Biomolecules (GE)	**4.3** Plant Physiology (C)	**5.3** Economic Botany (C)	**6.3** Phytopathology (C)
1.4 University Elective	**2.4** Genetics	**3.4** Food Microbiology (GE)	**4.4** Archegoniatae (C)	**5.4** Bioinformatics (C)	**6.4** Plant Systematic (C)
1.5 Principles of Nutrition Science	**2.5** Environmental Biotechnology	**3.5** Medicinal Botany (DSE)	**4.5** Stress biology/ Enzyme Technology (DSE)	**5.5** Intellectual Property Rights/Plant Diversity and Human Welfare (DSE)	**6.5** Bioethics and Biosafety/ Analytical Techniques for Plants (DSE)
1.6 Chemistry Lab for Biosciences (GE)	**2.6** Microbiology Lab	**3.6** Phycology and Mycology lab (C)	**4.6** University Elective (C)	**5.6** Plant Biotechnology Lab (C)	**6.6** Plant Systematics Lab
1.7 Cell Biology Lab (C)	**2.7** Physics Lab	**3.7** Anatomy of Angiosperms Lab (C)	**4.7** Genetic Engineering Lab (C)	**5.7** Economic Botany Lab(C)	**6.7** Phytopathology Lab(C)
			4.8 Developmental Biology of Plants Lab (C)	**5.8** Project 1/Dissertation 1 (DSE)	**6.8** Project 2/Dissertation 2 (DSE)

https://www.sharda.ac.in/programmes/bsc-botany

COURSE 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 (GE)	**2.1** Physics V	**3.1** Non Chordates (C)	**4.1** Genetic Engineering (C)	**5.1** Animal Physiology & Histology II (C)	**6.1** Animal Biotechnology (C)
1.2 Cell Biology (C)	**2.2** Statistics and Probability	**3.2** Animal Physiology and Histology-I (C)	**4.2** Diversity of Chordates (C)	**5.2** Ecology (C)	**6.2** Genomics(C)
1.3 Environmental Science	**2.3** Microbiology	**3.3** Biomolecules (GE)	**4.3** Developmental Biology of Animals (C)	**5.3** Comparitive Anatomy of Vertebrates (C)	**6.3** Parasitology and Microbiology (C)
1.4 University Elective	**2.4** Genetics	**3.4** Food Microbiology (GE)	**4.4** Metabolic Pathways (C)	**5.4** Bioinformatics (C)	**6.4** Evolutionary Biology (C)
1.5 Principles of Nutrition Science	**2.5** Environmental Biotechnology	**3.5** Insect Vector & Diseases (DSE)	**4.5** Immunology/Wild Life and Conservation & Management (DSE)	**5.5** Fish and Fisheries/ Applied Zoology (DSE)	**6.5** Endocrinology/ Biology of Insecta (DSE)
1.6 Chemistry Lab for Biosciences (GE)	**2.6** Microbiology Lab	**3.6** Non Chordates Lab (CP)	**4.6** University Elective	**5.6** Animal Physiology Lab (C)	**6.6** Parasitology and Microbiology Lab(C)
1.7 Cell Biology Lab (C)	**2.7** Physics Lab	**3.7** Histology of Animals (CP)	**4.7** Genetic Engineering Lab (CP)	**5.7** Bioinformatics Lab (C)	**6.7** Animal Biotechnology Lab(C)
			4.8 Biology of Chordates Lab (CP)	**5.8** Project 1/ Dissertation 1(DSE)	

https://www.sharda.ac.in/programmes/bsc-zoology

COURSE 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 Principles of Nutrition Science	**2.1** Physics V (GE)	**3.1** Food Chemistry	**4.1** Food Quality Analysis	**5.1** Technology of Fruits and Vegetables	**6.1** Dairy Technology
1.2 Bimolecule	**2.2** Biostatistics	**3.2** Food Biotechnology	**4.2** Processing Technology of Cereals Pulses Legumes and Oilseeds	**5.2** Technology of Spices and Functional Foods	**6.2** Technology of Meat Poultry and Sea Foods
1.3 Chemistry	**2.3** Introduction to Food Technology(C)	**3.3** Human Health and Diseases	**4.3** Principles of Food Preservation	**5.3** Food Packaging	**6.3** Food Safety and Regulations
1.4 Entrepreneurship	**2.4** Introduction to Microbiology	**3.4** Food Microbiology	**4.4** University Elective	**5.4** Food Engineering	**6.4** Waste Management in Food Industries
1.5 Functional English	**2.5** Environmental Sciences	**3.5** Nutrition Science and Human Physiology	**4.5** Unit Operations in Food Processing	**5.5** Entrepreneurship and Skill Development	**6.5** Research Methodology In Food Science
1.6 Principles of Nutrition Science Lab	**2.6** Physics Lab(GE)	**3.6** Food Biotechnology and Food Microbiology Lab	**4.6** Food Preservation Lab	**5.6** Technology of Fruits and Vegetables Lab	**6.6** Dairy Technology Lab
1.7 Chemistry Lab-1	**2.7** Introduction to Food Technology Lab	**3.7** Food Chemistry and processing Lab	**4.7** Processing Technology of Cereals Pulses Legumes Oilseeds and Enzymes Technology Lab	**5.7** Technology of Spices and Functional Foods lab	**6.7** Technology of Animal Foods Lab
				5.8 Project	**6.8** Project

https://www.sharda.ac.in/programmes/bsc-food-technology

COURSE 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 Chemistry (GE)	**2.1** Physics V9 (GE)	**3.1** Bacteriology (C)	**4.1** Genetic Engineering (C)	**5.1** Industrial Microbiology (C)	**6.1** Microbial Biotechnology (C)
1.2 Cell Biology (C)	**2.2** Functional English-I	**3.2** Biomolecules (C)	**4.2** Enzyme Technology	**5.2** Medical Microbiology (C)	**6.2** Phytopathology (C)
1.3 Environmental Science	**2.3** Introduction to Microbiology and Microbial Diversity (C)	**3.3** Molecular Biology/ Non Chordates (GE)	**4.3** Immunology (C)	**5.3** Virology (C)	**6.3** Food and Dairy Microbiology (C)
1.4 University Elective	**2.4** Genetics (C)	**3.4** Mycology and Phycology/Food Biotechnology	**4.4** Microbial Physiology and Metabolism (C)	**5.4** Bioinformatics (C)	**6.4** Environment Microbiology (C)
1.5 Principle of Nutrition Science/ Ecology	**2.5** Diversity of Plants/ Introduction to Food Technology (GE)	**3.5** Instrumentation/ Biofertilizers (DSE)	**4.5** Applied Microbiology/ Metabolic pathways (DSE)	**5.5** Intellectual Property Rights/Bioreactors and Downstream Processing (DSE)	**6.5** Microbes in Sustainable Agriculture and Development/Bioethics and Biosafety (DSE)
1.6 Chemistry Lab-1 (GE)	**2.6** Microbial Diversity Lab	**3.6** Baceriology Lab (CP)	**4.6** University Elective	**5.6** Medical Microbiology Lab (C)	**6.6** Microbial Biotechnology Lab (C)
1.7 Cell Biology Lab (C)	**2.7** Physics Lab (GE)	**3.7** Biomolecules Lab (CP)	**4.7** Genetic Engineering Lab (CP)	**5.7** Bioinformatics Lab (C)	**6.7** Food and Dairy Microbiology Lab (C)
			4.8 Immunology Lab (CP)	**5.8** Project 1/ Dissertation-1 (DSE)	**6.8** Project 2/ Dissertation 2 (DSE)

https://www.sharda.ac.in/programmes/bsc-microbiology

COURSE 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** Immunology and Immunotechnology	**3.1** Enzyme Technology	**4.1** Food Microbiology
1.2 Advanced Molecular Biology	**2.2** Advances in Plant Biotechnology	**3.2** Intellectual Property Rights and Ethical Issues	**4.2** Medical Biotechnology
1.3 Advanced Genetic Engineering	**2.3** Bioinstruments	**3.3** Genomics	**4.3** Cancer Biology
1.4 Animal Cell Technology	**2.4** Fermentation Technology	**3.4** Enzyme Technology	**4.4** Dissertation Part-II
1.5 Language/Biostatistics	**2.5** Bioinformatics	**3.5** Environmental Microbiology and Waste Management	
1.6 Biochemistry Lab	**2.6** Immunotechnology Lab	**3.6** Enzyme Technology Lab	
1.7 Molecular Biology Lab	**2.7** Plant Biotechnology Lab	**3.7** Genomics & Bacterial Genomics Lab	
1.8 Genetic Engineering Lab	**2.8** Bioinstrumentation Lab	**3.8** Dissertation Part-I	

https://www.sharda.ac.in/programmes/msc-biotechnology

COURSE 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** Virology	**3.1** Environmental Microbiology and Waste Management	**4.1** Host Pathogen Interaction
1.2 Molecular Biology	**2.2** Mycology and Phycology	**3.2** Infection, Immunity and Diagnostics	**4.2** Food Microbiology (DSE)
1.3 Microbial Metabolism	**2.3** Bacteriology	**3.3** Microbial Genomics	**4.3** Fermentation Technology
1.4 Enzymology	**2.4** Recombinant DNA Technology	**3.4** Intellectual Property Rights and Ethical Issues (GE)	**4.4** Dissertation- II (DSE)
1.5 Language/Biostatistics (GE)	**2.5** Bioinformatics (GE)	**3.5** Dissertation-I (DSE)	
1.6 Microbial Diversity Lab	**2.6** Virology Lab	**3.6** Immunology Lab	
1.7 Microbial Metabolism lab	**2.7** Recombinant DNA Technology Lab	**3.7** Environmental Microbiology Lab	
1.8 Molecular Biology Lab	**2.8** Mycology and Phycology Lab		

https://www.sharda.ac.in/programmes/msc-microbiology

COURSE 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** Intellectual Property Rights and Ethical Issues
1.4 Technology of Fruits, Vegetables and Plantation Crops	**2.4** Food Microbiology	**3.4** Techniques in Food Analysis	**4.4** Dissertation-II
1.5 Biostatistics	**2.5** Bioinformatics	**3.5** Food Quality and Assurance Lab	
1.6 Advanced Food Chemistry Lab	**2.6** Community Connect	**3.6** Meat Technology Lab	
1.7 Advanced Food Processing Lab	**2.7** Advanced Food Biotechnology Lab	**3.7** Dissertation-I	
1.8 Food Preservation Lab	**2.8** Advanced Food Microbiology Lab		
	2.9 Advanced Food Safety and Toxicology Lab		

https://www.sharda.ac.in/programmes/msc-food-science-and-technology

BAKERY SCIENCE PROGRAMMES

The Indian bakery industry is growing well but at the same time facing several challenges, particularly arising from quality of products, limited variety of products and lack of trained people. To fill this gap, it is required to train the students and professionals in science of baking, role of ingredient, bakery machineries, hygiene and sanitation, bakery management, production methods, quality control and specifications.

To bridge this gap, Sharda University has entered into a tie-up with AIBTM to nurture top bakery professionals ready for the industry.

The programmes offered are:

B.Sc. (Hons) - Bakery Sciences & Technology

PG Diploma

- Patisserie & Artisan Bakery Craft
- Bakery Technology Entrepreneurship
- Food Safety and Quality Management

Assocom Institute of Bakery Technology & Management (AIBTM)

AIBTM has evolved over the last two decades from a small beginning to a full- fledged global training institute with technical guidance and active support not only from Indian bakery and biscuit industry but also from countries like USA, South Korea etc.

COURSE STRUCTURE - B.Sc. (Hons.) Bakery Science & 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 Functional English-I	**2.1** Environmental Studies	**3.1** Technology of Food Preservation	**4.1** Bakery Ingredients Science	**5.1** Food & Nutrition	**6.1** Dessert Production
1.2 Fundamentals of Food Technology	**2.2** Principles of Food Science	**3.2** Food Processing Technology	**4.2** Food Engineering	**5.2** Food & Nutrition Practical	**6.2** Dessert Production Practical
1.3 Chemistry	**2.3** Technology of Cereals, Pulses & Oilseeds	**3.3** Technology of Food Preservation Practical	**4.3** Food Microbiology	**5.3** Science of Cakes & Sweet Goods	**6.3** Chocolate & Confectionary Technology
1.4 Biomolecules	**2.4** Technology of Cereals, Pulses & Oilseeds Practical	**3.4** Food Processing Technology Practical	**4.4** Food Microbiology Practical	**5.4** Science of Cakes & Sweet Goods Practical	**6.4** Chocolate & Confectionary Technology Practical
1.5 Institute Elective	**2.5** Biostatics	**3.5** Food Safety	**4.5** Science of Breads & Rolls	**5.5** Food Chemistry-I	**6.5** Sensory Evaluation of Food
	2.6 Physics	**3.6** Institute List	**4.6** Science of Breads & Rolls Practical	**5.6** Food Chemistry-II	**6.6** Technology of Plant & Animal Foods
		3.7 GE-5	**4.7** Food Quality Management	**5.7** Food Packaging	**6.7** Nutraceuticals & Functional Foods
		3.8 Human Health & Diseases		**5.8** Minor Project	**6.8** Major Project

https://www.sharda.ac.in/programmes/bsc-bakery-sciencestechnology-with-aibtm

COURSE STRUCTURE - PG Diploma in Bakery Technology & Entrepreneurship

TERM I	TERM II
COURSE	COURSE
1.1 Food Science & Chemistry (T)	**2.1** Science of Biscuits & Crackers (T)
1.2 Cereal Science (T)	**2.2** Biscuits & Crackers Processing (P)
1.3 Basic Ingredients Technology – I (T)	**2.3** Food and Nutrition (T)
1.4 Science of Bread Technology (T)	**2.4** Entrepreneurship & Management(T)
1.5 Processing of Breads (P)	**2.5** Minor Projects/Workshops (P)
1.6 Science of Cakes & Sweet Goods (T)	**2.6** Advanced Ingredients Technology (T)
1.7 Processing of Cakes & Sweet Goods (P)	**2.7** Food Packaging & Labeling (T)
1.8 Food Safety & QM (T)	**2.8** Research Methodology & Statistics (T)
1.9 Food Analysis (T)	**2.9** Bakery Operations (T)
1.10 Food Analysis (P)	**2.10** Industrial Training (P)
1.11 Emerging Products in Bakery Industry (T)	

COURSE STRUCTURE - PG Diploma in Food Safety and Quality Management

TERM I	TERM II
COURSE	COURSE
1.1 Basic Microbiology	**2.1** Food Microbiology
1.2 Food Chemistry	**2.2** Waste Management in Food Industries
1.3 Food Quality Analysis	**2.3** Food Packaging and Labeling
1.4 Food Laws and Standards	**2.4** Sector Specific Food Safety Guidelines
1.5 Principles of Food Safety and Quality Management	**2.5** Entrepreneurship and Skill Development
1.6 Minor Project-1	**2.6** Food Safety and Quality Auditing
1.7 Basic Microbiology Practical	**2.7** Project Work
1.8 Food Quality Analysis Practical	**2.8** Food Microbiology and Toxicology Practical
1.9 Food Chemistry Practical	**2.9** Food Safety and Quality Auditing Practical

COURSE STRUCTURE - PG Diploma in Patisserie & Artisan Bakery Craft

TERM I	TERM II
COURSE	COURSE
1.1 Ingredients Technology-I (T)	**2.1** Science of Biscuits & Cookies (T)
1.2 Bread Science (T)	**2.2** Biscuits & Crackers Processing (P)
1.3 Bread Practical (P)	**2.3** Sweet Goods Processing-II (P)
1.4 Cakes & Sweet Goods Science (T)	**2.4** Dessert Production
1.5 Cakes & Sweet Goods Processing (P)-I	**2.5** Emerging Technologies in BI (T)
1.6 Food Safety & QM (T)	**2.6** Operations (T)
1.7 Quality Analysis (P)	**2.7** Chocolate Art & Sugar Art (P)
1.8 Entrepreneurship (T)	**2.8** Icing & Decorations (P)
	2.9 Industrial Project/Training (P)

DEPARTMENT OF MATHEMATICS

Mathematics is the language of nature. To express concisely and precisely any information in Science, the logic and reasoning akin to Mathematics along with its concepts and structures is a must. Department of Mathematics runs undergraduate and post graduate courses with a balanced syllabus of both pure and applied Mathematics and offers Ph.D. program in various areas of specializations as Number Theory with Cryptography, Numerical Analysis, Graph Theory, Fluid Dynamics, Functional Analysis, Operations Research and Special functions. A strong group is also working on Wavelets and inverse problems. Presently, five students are doing Ph. D. from the department.

Strength of The Department:

- 5 research scholars have been awarded Ph. D. degree.
- 76 research papers have been published in reputed national and international journals.
- 9 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.

Programmes Offered

- B.Sc. (Hons.) - Mathematics
- B.Sc. (Hons.) - Data Science & Analytics
- M.Sc. - Mathematics
- Ph.D.

Electives

- Number Theory and Cryptography
- Measure Theory
- Applied Statistics
- Advance Computing
- Data Mining
- Analysis of Experiment

Career Prospects

- Scientist in ISRO, DRDO
- SSC/UPSC/UPPSC
- Wipro & IT Companies
- General Management
- Statistical Research
- Engineering Sciences

Interdisciplinary research centre

The Department has an interdisciplinary research centre, "Centre for Advanced research in Applied Mathematics & Physics" with three scholar ship of Rs. 30,000/= per month each. The following areas of research are focused.

- Medical imaging including accurate prediction of disease & brain studies.
- Prediction of natural calamities (Earth quake and Tsunami)
- Mathematical Models in Meteorology & pollution and Artificial Intelligence.
- Application of emerging areas of Mathematics focused on Industries related to Railways, Metro, Oil and Gas.
- Priorities areas includes Wavelets, fractals, big data and compression sensing. Computational Sciences and data management and their mathematical aspects are also focused.

Laboratories

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

Workshop/Career Guidance Programme/Seminars

- International Symposium on Computational Science and its Application, 5th-6th Feb, 2018.
- An Event in Memory of Ramanujan organized by Department of Mathematics on 30th-31st, 2018.
- An Expository Lecture on "Fractal with Real life Applications" by Prof. Rashmi Bharadwaj on 18th January 2019.
- Expert Lecture on "Mathematics of CT and MRI image reconstruction" by Prof. Ashok Kumar on 25th January 2019.
- An 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). On 22th February 2019.

Following International Academicians have visited the Department of Mathematics, SBSR at Sharda:

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

COURSE STRUCTURE - B.Sc. (Hons.) Data Science & Analytics

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 Basic/Intermediate English	**2.1** Linear Algebra	**3.1** Numerical Analysis	**4.1** Ordinary Differential Equation	**5.1** Statistical Analysis (Count Data and Survival Analysis)	**6.1** Deep Learning
1.2 Statistical-I (Probability)	**2.2** Statistical-III (Sampling)	**3.2** Data Visualization	**4.2** Inference	**5.2** Recommender Systems	**6.2** Elective-II
1.3 Foundation Course in Mathematics	**2.3** Discrete Mathematics	**3.3** Data Preparation	**4.3** Data Ware Housing and Data Mining	**5.3** Machine Learning	**6.3** Elective-III
1.4 Statistical-II (Descriptive Statistics)	**2.4** Environmental Studies	**3.4** Text Analytics	**4.4** Time Series, Forecasting and Index Numbers	**5.4** Big Data Analytics	**6.4** Elective-IV
1.5 Foundation Computer Science	**2.5** Oops Using Python	**3.5** Research Methodology	**4.5** Multivariate Analysis	**5.5** Elective-I	**6.5** Capstone Project
1.6 Statistical Structure in data Using R	**2.6** Data Based Management System	**3.6** Community Connect	**4.6** Statistical Simulation		**6.6** Research Report Writing and Presentation

https://www.sharda.ac.in/programmes/bsc-hons-data-science-analytics

SPECIALIZATION PAPERS FOR ELECTIVE PAPERS I, II, III, IV

MARKETING

- Predictive Analytics for Marketing
- Digital Marketing
- Pricing Analytics
- Web & Social Media Analytics
- Strategic Marketing

BUSINESS ANALYTICS

- Advanced Multivariate Modelling for Marketing
- Advanced Business Analytics
- Pricing Analytics
- Marketing Analytics
- Business Intelligence
- Web & Social Media Analytics
- IoT

OTHER SPECIALIZATION*

- Biostatistics
- Medical Statistics
- Industrial Statistics
- Statistical Quality control
- Advanced Data Visualization
- Cryptography
- Artificial Intelligence
- Scalable Systems
- Cloud Computing
- Statistics in Forensic Analytics
- Statistics in Agriculture

OPERATIONS

- Supply Chain Operations
- Business Intelligence
- Logistic and Supply Chain
- Cyber Security
- Total Quality Management
- Knowledge Management

FINANCE

- Financial Statement Analysis
- Financial Modelling
- Econometrics
- Management of Commercial Bank
- Financial Risk Management
- Long Term Wealth
- Mergers Acquisitions and Corporate Restructuring
- Financial Risk Analytics
- Behavioural Finance
- Mathematical Finance

GENERAL MANAGEMENT

- Emotional Intelligence for Managerial Effectiveness
- HR Analysis
- International Business Strategy

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

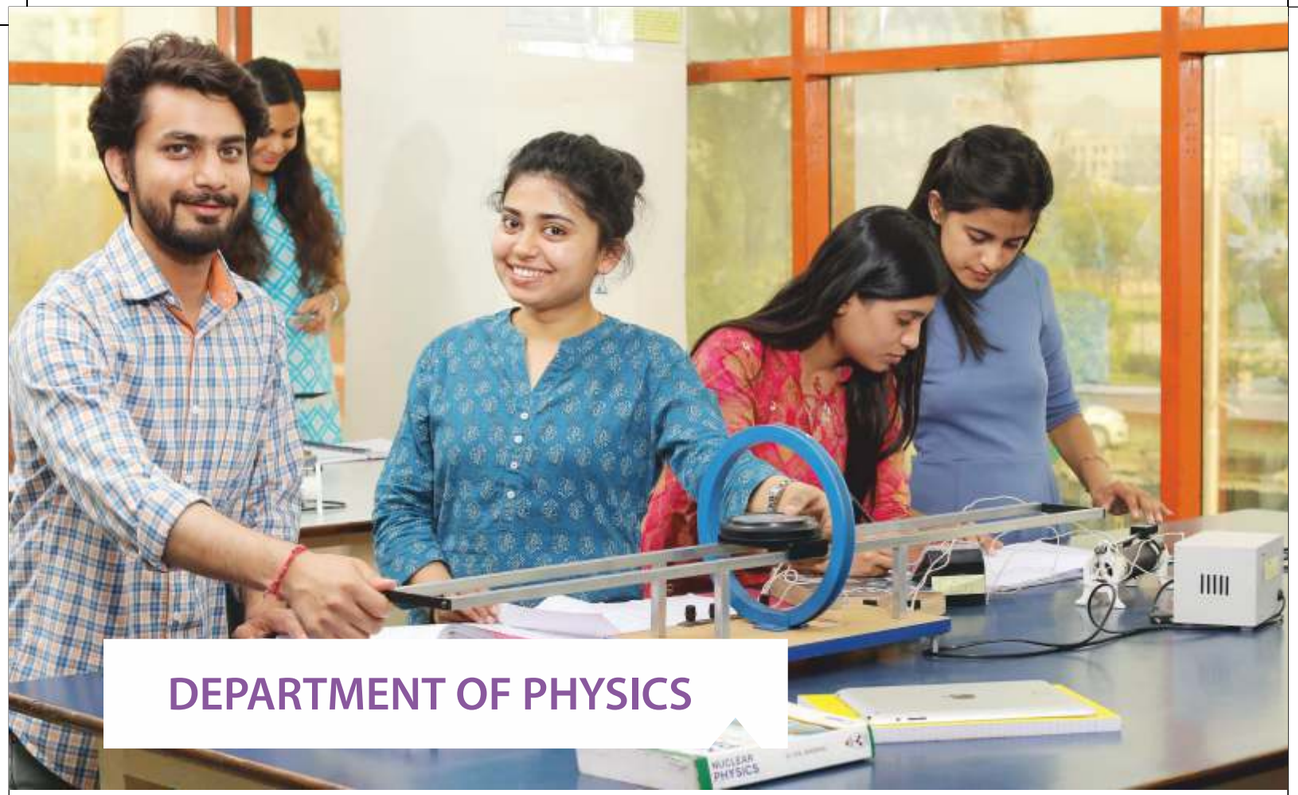
FIRST YEAR		SECOND YEAR		THIRD YEAR	
TERM I	**TERM II**	**TERM III**	**TERM IV**	**TERM V**	**TERM VI**
COURSE	**COURSE**	**COURSE**	**COURSE**	**COURSE**	**COURSE**
1.1 Mechanics & props of matter	**2.1** Optics/Thermal Physics	**3.1** Calculus-II	**4.1** Ordinary Differential Equations	**5.1** Real 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	

https://www.sharda.ac.in/programmes/bsc-mathematics

COURSE 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	

https://www.sharda.ac.in/programmes/msc-mathematics



DEPARTMENT OF PHYSICS

The faculty members of Physics department have been actively pursuing research in important areas like conducting polymers and device applications, thin film deposition, atmospheric aerosols, remote sensing technology, nano-physics, solar cells, dye sensitized solar cells, ferromagnetic materials, super capacitors, theoretical physics etc. Experimental research focus is towards recent areas within material science - Ceramics, solid electrolytes and ferrite materials with regard to synthesis of variety of materials i.e. electrolytes (gel/ polymer electrolytes), carbon allotropes, nanocomposites and their characterizations i.e. electrical studies, optical studies, structural studies as well as industrial applications like solar cells - dye sensitized solar cells (DSCC), Perovskite sensitized solar cell (PSSC), quantum dot sensitized solar cell (QDSSC), super capacitors, actuators, and humidity/ gas sensors. The other research motive of our department is in the field of high energy physics and medical image processing, magneto hydrodynamics; High energy Physics - relativistic heavy ion collisions and quark gluon plasma, Astro Physics - Neutron stars, quark and/ or diquark stars, binary stars, Cosmology - Early universe on FRW model, and mathematical modeling; medical image processing, magneto hydrodynamics, cosmic rays, artificial neural networks, acoustics and thermoelectric devices, theoretical studies/modeling of solar cells, heliosphere, composite materials, liquid crystals, ultrasonics and photonics.

In our department, we have full-fledged research laboratory; MRL (Material Research Laboratory) where we have most important characterization tools like impedance spectroscopy, Optical microscopy, Keithley source major unit, FTJR, UV/Vis absorption spectroscopy. Using these specialized equipment we can characterize nanomaterials, ferrites, ceramics, high conducting materials and applied in developing super capacitors, solar cells, actuators, and humidity sensors.

Programmes Offered

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

Career Prospects

- Scientists in ISRO, DRDO & BARC
- Scientists in CSIR Labs
- Wipro and other IT industries

Laboratories

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

Materials Research Lab (www.materialsresearchlab.net)

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

Electives

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

Projects/Workshops/Conferences

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

COURSE 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			

https://www.sharda.ac.in/programmes/bsc-physics

COURSE 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		

https://www.sharda.ac.in/programmes/msc-physics

COURSE STRUCTURE - M.Tech. Nano Science & Technology (Programme-1)

FIRST YEAR		SECOND YEAR	
TERM I	**TERM II**	**TERM III**	**TERM IV**
COURSE	**COURSE**	**COURSE**	**COURSE**
1.1 Quantum Mechanics	**2.1** Characterization Techniques of Nanomaterials	**3.1** Project	**4.1** Dissertation
1.2 Thermodynamics and Phase Transformations in Solids	**2.2** Properties of Nanomaterials	**3.2** Seminar	
1.3 Physics and Chemistry of Materials	**2.3** Thin Films Technology	**3.3** Dissertation	
1.4 Nanomaterials and their synthesis	**2.4** Elective-2		
1.5 Elective-1	**2.5** Open Elective		
1.6 Foreign Language	**2.6** Technical Communication		
1.7 Practical	**2.7** Practical		

https://www.sharda.ac.in/programmes/bsc-physics

COURSE STRUCTURE - M.Tech. Nano Science & Technology (Programme-2)

FIRST YEAR		SECOND YEAR	
TERM I	**TERM II**	**TERM III**	**TERM IV**
COURSE	**COURSE**	**COURSE**	**COURSE**
1.1 Quantum Mechanics	**2.1** Characterization Techniques of Nanomaterials	**3.1** Seminar-1	**4.1** Seminar-2
1.2 Thermodynamics and Phase Transformations in Solids	**2.2** Properties of Nanomaterials	**3.2** Project-1	**4.2** Project-2
1.3 Physics and Chemistry of Materials	**2.3** Thin Films Technology	**3.3** Departmental Elective-3	**4.3** Departmental Elective-5
1.4 Nanomaterials and their Synthesis	**2.4** Departmental Elective-2	**3.4** Departmental Elective-4	**4.4** Departmental Elective-6
1.5 Departmental Elective-1	**2.5** Open Elective-1	**3.5** Open Elective-2	**4.5** Open Elective-3
1.6 Foreign Language	**2.6** Technical Communication		
1.7 Practical	**2.7** Practical		

https://www.sharda.ac.in/programmes/mtech-nano-science-technology

VIEWS THAT SPEAK EXCELLENCE

Ms. Priyanka
(M.Sc. Chemistry)

It was a wonderful time and pleasure for me, studying in Sharda University. Last two years has enriched my life and helped me to develop a positive attitude. All the faculty members are helpful, friendly and interested in students well-being.

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.

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.

Mr. Lalit Yadav
B.Sc. (Hons.) Physics

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

Ms. Kajal Dadwal
B.Sc. (Hons.) Physics

I would like to thank my University and faculty members for providing me a platform to prove myself.

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. 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. 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. Dharamnath
M.Sc. Chemistry

I was pursuing M.Sc. Chemistry programme at Sharda University and am proud of the learning, global exposure, and industry-ready training I received. Currently, I am placed in Jubilant Chemsys.

Mr. Kanjur Wangdi
M.Sc. Chemistry

Building my career in Sharda University enriched my life. I can somehow see that my future is totally reliant on the career for which I am grateful to every faculty member of Chemistry Department, School of Basic Science and Research.

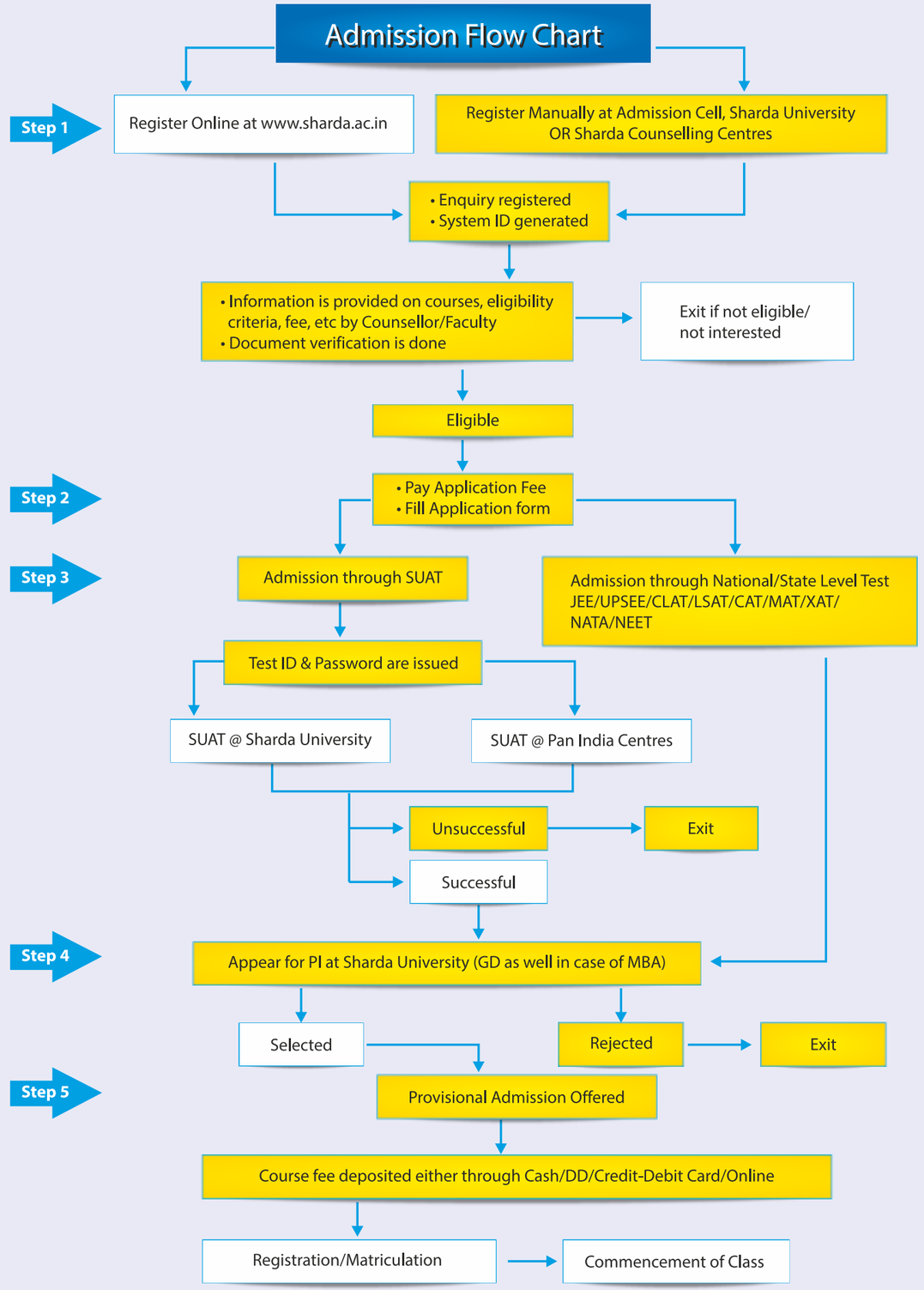
Mr. Somesh Kumar Jha
B.Sc. Biochemistry

Regional Centre for Biotechnology, Faridabad

Having studied at Sharda University for 3 years, I can proudly say that it fosters multi-dimensional skills in students, enriching their overall personality. The faculty of Biochemistry and Chemistry has always been helpful in terms of career guidance and for letting us showcase our potential.

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.



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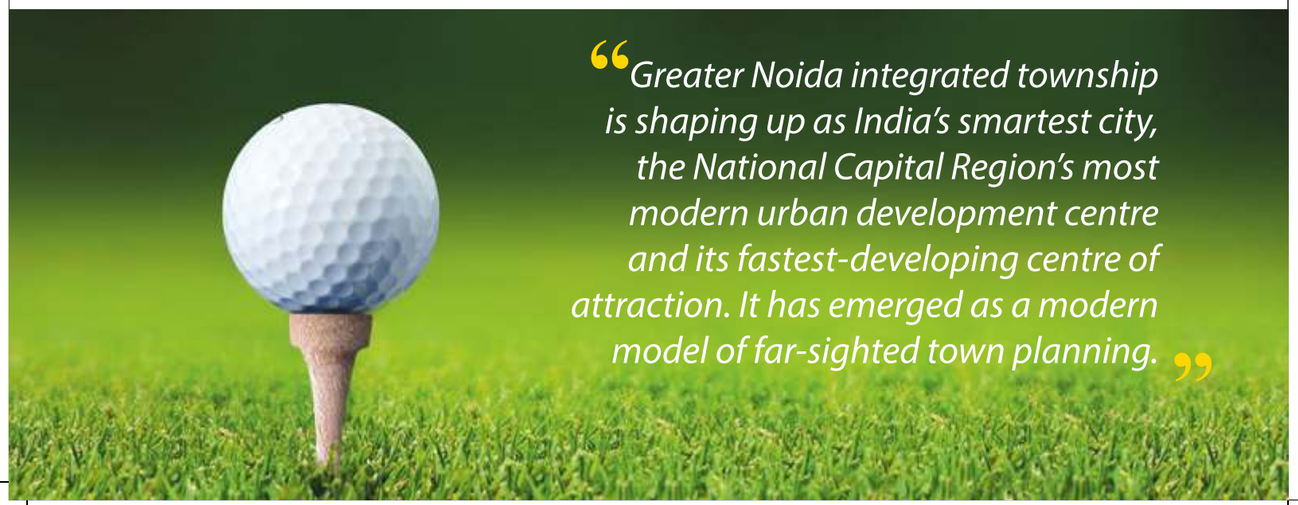

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