



# Prospectus 2018-19



**Shaheed Rajguru College  
of Applied Sciences for Women**  
Accredited with 'A' Grade by NAAC  
**University of Delhi**  
Vasundhara Enclave, New Delhi-110096  
[www.rajgurucollege.com](http://www.rajgurucollege.com)





***Shivaram Hari Rajguru***

***(24 August 1908 — 23 March 1931)***

*Shivaram Hari Rajguru was born in a Hindu Brahmin family at Khed in Poona district in 1908. He came to Varanasi at a very early age where he learnt Sanskrit and read the Hindu religious scriptures. At Varanasi, he came in contact with revolutionaries. He joined the freedom movement and became an active member of the Hindustan Socialist Republican Army (H.S.R.A). Rajguru had fearless spirit and indomitable courage. The only object of his adoration and worship was his motherland for whose liberation he considered no sacrifice too great. He was a close associate of Chandra Shekhar Azad, Sardar Bhagat Singh and Jatin Das and his field of activity was U.P. and Punjab, with Kanpur, Agra and Lahore as his headquarters. Rajguru was a good shooter and was regarded as the gunman of the party. He took part in various activities of the revolutionary movement, the most important being the murder of British police officer, J. P. Saunders at Lahore in 1928.*

*Sardar Bhagat Singh, Rajguru and Sukhdev were tried for Saunders' murder. They were convicted and sentenced to death. Rajguru along with his two comrades was hanged in the Lahore jail on the evening of 23rd March, 1931. At the time of his martyrdom, Rajguru was hardly 23 years of age*

**Orientation Day**

**20th July, 2018 10:30 AM;**

**Venue : College Auditorium**



## Principal's

Shaheed Rajguru College of Applied Sciences for Women is a grade 'A' institute accredited by NAAC that offers not only a platform for achieving academic excellence but also a nurturing environment for holistic growth and development. With immense pride and happiness, I welcome you all to this institute that is comprised of an enthusiastic and cooperative community of students, faculty and staff.

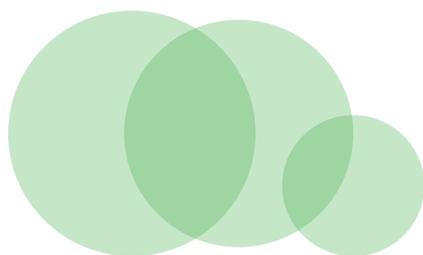
Shaheed Rajguru College aims to provide its students with a competitive environment and equip them to be the forerunners in

their respective fields. At present, there are 14 undergraduate courses being offered in the college, namely, B.Sc. (Hons.) in Biochemistry, Biomedical Science, Chemistry, Computer Science, Electronics, Food Technology, Instrumentation, Mathematics, Microbiology, Physics and Statistics, B.A.(Hons.) in Psychology, Bachelor of Business Administration (Financial Investment Analysis) and Bachelor of Management Studies. The college also stands out for its state-of-the-art infrastructure and facilities. The college is proud of its highly equipped laboratories in each department. It also has a three-floored RFID enabled library, wi-fi enabled campus and advanced projection systems and interactive monitors to ensure an advanced and interactive learning experience for our students. The college has a well-equipped Gym which is open for all students to imbibe the seed of physical fitness. The college has hostel which provides accommodation to nearly 120 students. The campus design is friendly for physically challenged with ramps and elevators. The college also has an indoor auditorium, an open air amphitheatre and a conference room. The 9.5 acres lush green campus adds a calming ambience to the college.

Over the years, Rajguru college has proudly witnessed many of its alumni attain remarkable success in their respective fields and there are surely many more to come. With every passing year, the college gets the opportunity to mould many bright young minds and bring out the best in them in an endeavour to enable them to reach the epitomes of success. The college believes in harbouring an atmosphere of knowledge as well as innovativeness, creativity and talent.

This prospectus contains all the necessary information pertaining to admission process including the procedure to fill up the admission form, fees, the syllabi of all the courses and generic elective options to help the students and parents get information conveniently regarding the admission process and course selection.

With the commencement of a new academic year, I warmly welcome all the first year students in their new phase of life wherein you will make life-long friends and grow both intellectually and socially. I wish you all the very best for the years to come and hope that you have an immensely productive, joyous and memorable time here.



Dr. Payal Mago  
Principal

Principal’s Message.....	1
Admission Schedule.....	3
About the College.....	4
Admission Details .....	7
Eligibility Criteria.....	8
The Faculty .....	9
Core Departments	
• Department of Biochemistry.....	10
• Department of Biomedical Science .....	12
• Department of Chemistry .....	14
• Department of Computer Science.....	16
• Department of Electronics.....	18
• Department of Food Technology.....	20
• Department of Instrumentation .....	22
• Department of Management Studies .....	24
• Department of Mathematics .....	27
• Department of Microbiology .....	29
• Department of Physics .....	31
• Department of Psychology .....	33
• Department of Statistics.....	35
Supporting Department	
• Deptt. of Physical Education & Sports Sciences .....	36
Facilities at @SRCASW .....	37
Milestones @SRCASW .....	38
Opportunities @SRCASW .....	39
Life @SRCASW .....	40
Social Initiatives @SRCASW .....	42
College Regulations.....	43
Ordinances .....	45
Committees .....	47
Coursewise Seats .....	48
Fee Structure .....	49

## Undergraduate Admissions 2018-2019 - Dates at a Glance

Starting Date for Online Registration .....	15th May 2018
Closing Date for Online Registration .....	7th June 2018
Notification of First Cut-off (Merit-based).....	19th June 2018
Notification of First Allotment List (Entrance-based).....	To be announced
Commencement of Classes .....	20th July 2018
Closing date of Admission .....	16th August 2018

## Schedule for Announcement of Cut-off lists, Verification of Documents, Approval of Admission in Colleges and Payment of Admission Fee

Cut-off	Activity	Date
	Online Registration	15.05.2018 (Tuesday) 6 PM onwards to 07.06.2018 (Thursday) Till 6 PM
First Cut-off	Notification of First Cut-off Marks List by the Colleges	19.06.2018 (Tuesday)
	Document verification and approval of admission	19.06.2018 (Tuesday) to 21.06.2018 (Thursday)
Second Cut-off	Notification of Second Cut-off Marks List by the Colleges	25.06.2018 (Monday)
	Document verification and approval of admission	25.06.2018 (Monday) to 27.06.2018 (Wednesday)
Third Cut-off	Notification of Third Cut-off Marks List by the Colleges	30.06.2018 (Saturday)
	Document verification and approval of admission	30.06.2018 (Saturday) to 03.07.2018 (Tuesday) (except Sunday)
Fourth Cut-off	Notification of Fourth Cut-off Marks List by the Colleges (if any)	06.07.2018 (Friday)
	Document verification and approval of admission	06.07.2018 (Friday) to 09.07.2018 (Monday) (except Sunday)
Fifth Cut-off	Notification of Fifth Cut-off Marks List by the Colleges (if any)	12.07.2018 (Thursday)
	Document verification and approval of admission	12.07.2018 (Thursday) to 14.07.2018 (Saturday)

### Note :

- For document verification and approval of admission following timing will be observed :  
9.30 a.m. to 1.30 p.m.
- After approval of admission, the applicant has to log on to the undergraduate admission portal to make online admission fee payment. This may be done till 12:00 noon of the day of the last day of that cut-off in which applicant is taking admission.

**Further Cut-offs / Spot Counselling schedule may be declared depending on the vacant seats**

## Vision

To emerge as one of the world's leading institute through continuing to the highest academic standards by forging strong industry-academia bond and playing a pioneering role in research & development, so as to serve society by way of shaping professionals to conquer the present and future challenges to the socio-economic fabric of our society by dissemination of relevant knowledge through structured learning system.

## Mission

To build & nurture a new generation of well-rounded professionals who can work as positive change agents in the new millennium. It will be our endeavour to assimilate and disseminate practical strategies to future professionals and to encourage their understanding of strategic perception to fulfill the mission of the organisation in the fast changing global environment.

### Academic Calendar 2018-19

Semester I/III/V/VII	
Classes Begin	20th July, 2018 (Friday)
Mid-Semester Break	15th October, 2018 (Monday) to 21st October, 2018 (Sunday) Note:- Dusshera on 19.10.2018 (Friday)
Classes begin after Mid-Semester Break	22nd October, 2018 (Monday)
Dispersal of Classes, Preparation leave and Practical Examinations begin	16th November, 2018 (Friday)
Theory Examinations begin	30th November, 2018 (Friday)
Winter Break	17th December, 2018 (Monday) 31st December, 2018 (Monday)
Semester II/IV/VI/VIII	
Classes Begin	1st January, 2019 (Tuesday)
Mid-Semester Break	18th March, 2019 (Monday) to 24th March, 2019 (Sunday) Note:- Holi on 20.03.2019 (Wednesday)
Classes begin after Mid-Semester Break	25th March, 2019 (Monday)
Dispersal of Classes, Preparation leave and Practical Examinations begin	29th April, 2019 (Monday)
Theory Examinations begin	10th May, 2019 (Friday)
Summer Vacations	26th May, 2019 (Sunday) 19th July, 2019 (Friday)

Shaheed Rajguru College of Applied Sciences for Women a constituent college of University of Delhi and funded by Govt. of NCT of Delhi, was established in the year 1989. The College offers the following courses:

S. No.	Name of Courses	S. No.	Name of Courses
1	B.Sc. (Hons.) Biochemistry	8	B.B.A. [FIA] (Bachelor in Business Administration)
2	B.Sc. (Hons.) Biomedical Science	9	B.M.S. (Bachelor in Management Studies)
3	B.Sc. (Hons.) Chemistry	10	B.Sc. (Hons.) Mathematics
4	B.Sc. (Hons.) Computer Science	11	B.Sc. (Hons.) Microbiology
5	B.Sc. (Hons.) Electronics	12	B.Sc. (Hons.) Physics
6	B.Sc. (Hons.) Food Technology	13	B.A. (Hons.) Psychology
7	B.Sc. (Hons.) Instrumentation	14	B.Sc. (Hons.) Statistics

These courses provide the platform where the students are equipped with essential and practical knowledge to face the challenging positions worldwide. The college has about 1,000 students at present hailing from different parts of the country.

The college has well-qualified and competent faculty. An important aspect of teaching process is the ability to learn, unlearn and relearn. The teaching philosophy in the college is that the difference between the teacher and the taught has to be dissolved; the teacher and the taught are part of one process. The college has efficient support staff responsible for the smooth functioning of various laboratories and administrative work in the college.

Besides regular courses college conducts short term workshops and lectures in various disciplines. The college in collaboration with CISCO runs a CISCO networking academy and prepares the students for CCNA industry certification. The college also has an Indira Gandhi Open National University (IGNOU) centre for PG Diploma in Library Automation and Networking (PGDLAN).

The college gives its students opportunity to excel in sports and co-curricular activities as well. There are various societies in the college like Mukhauta (Street play society), Aharyaa (Dance society), Philyra (Music society), Elvira (Fine arts society), Shuffle Shots (Photography club), Glamfire (Fashion society), Inklings (Literary society), Eco club, Robotics club, Youth Parliament and NSS.



## @SRCASW

Since quality enhancement is a continuous process, the Internal Quality Assurance Committee (IQAC) is the part of the college system that works towards realization of the goals of quality enhancement and sustenance. The prime task of the IQAC is to develop a system for conscious, consistent and catalytic improvement in the overall performance of the college. Feedback response from students, parents and alumni leads to a continuous cycle of improvement. Result analysis is an important parameter to measure our strength. The college actively organizes inter and intra college workshops, seminars, activities etc for holistic growth of students and staff. Mentorship for each student is another aspect of student-teacher interaction.

## The Staff



## Academic Qualifications

- The candidate should have passed or have appeared in March /April 2018 in Senior Secondary School Examination of CBSE or any other examination considered equivalent by the University of Delhi.
- Compartment cases of current session will not be considered for admission.
- Prospectus can be obtained on all working days (Monday through Friday) between 9.00 a.m. to 1:30 p.m. from the college office on payment (non-refundable) at the counter via paytm or debit/credit card.

## Documents Required

The **original Certificates** and two sets of self-attested photocopies of the following documents have to be submitted at the time of admission:

- Printout of Admission Form of University of Delhi submitted online.
- Class 10th Board Examination Certificate as evidence of date of birth.
- Class 10th Marks-sheet.
- Class 12th Marks-sheet.
- Class 12th Provisional/Original Certificate.
- Character Certificate (recent) from the institution last attended.
- SC/ST/PwD/CW/KM Certificate (in the name of the candidate) issued by the competent authority.
- OBC (Non-Creamy Layer) Certificate (in the name of the candidate) as in Central List.
- Transfer Certificate from the School/College as well as Migration Certificate from Board/University are required from those students who have passed Senior Secondary Examination from outside Delhi.
- Five passport size self-attested photographs.

The University will accept self-attested copies of documents/papers provided by the students. It is made clear that if any false attestation/falsified records are detected, the students will be debarred from attending any course in the University or its college(s) for next five years and in addition, a criminal case under relevant section of IPC (viz. 470, 471, 474, etc.) will be instituted against her.

## Children/Widows of armed personnel killed/disabled in action during the hostilities, J & K migrants

The candidates falling in any of the above categories are required to register themselves for admission with University of Delhi as per the modalities laid down by the University.

## Reservation of Seats

- 22.5% seats are reserved for SC/ST candidates (SC 15 % and ST 7.5 %, interchangeable, if necessary);
- 5% seats are reserved for the Children/Widows of armed personnel killed/disabled in action during the hostilities (CW) (Supernumerary Seats);
- 27% seats are reserved for OBC candidates (Non-Creamy layer, Central List); and d) 5% seats are reserved for the Persons with Disabilities (PwD) candidates (Supernumerary Seats).

## Guidelines for Admission on the Basis of Excellence in Sports 2018-19

The College offers admission in sports category for various sports as mentioned below to female candidates. Trials will be conducted centrally by University of Delhi as per the guidelines available on University's website [www.du.ac.in](http://www.du.ac.in). The number of candidates to be selected per game would depend on the skill and merit of the candidate and also the positional requirement in the college team. Sports persons in the following Games and Positions may be selected based on merit and academic course requirement after clearing the Fitness Test, Certificate Scrutiny and relevant Game Selection Trial.

S. No.	Game	Positions	Seats in Sports Quota	
			In Figures	In Words
1.	Athletics	Sprinters (100, 200, 400 Mtrs.)	1	One
		Middle Distance Run (800, 1500)	1	One
		Long Distance, Runners ( 5000, 10000)	1	One
		Throwers ( Shot Put, Discuss, Javelin & Hammer)	1	One
2.	Badminton	Singles & Doubles	2	Two
3.	Chess	Good Players	1	One
4.	Kho-Kho	Runner	1	One
		Chaser	1	One
5.	Table Tennis	Good Players	2	Two
6.	Volleyball	Universal	2	Two
7.	Yoga	Good Players	1	One

- The college reserves the right to reshuffle the sports quota seats.
- Original certificates issued by the Issuing Authority of Zonal, Inter Zonal, State, National and / or International level in the games relevant to the college only will be considered.
- Selected candidates will have to submit an undertaking on Judicial Stamp Paper of Rs 100/- at the time of admission stating that "She will play for college and university all the years during her undergraduate course".

A medical fitness certificate from government hospital/ Registered Medical Practitioner should be submitted

## Criteria

Course	Requirement of Subjects Studied and Passed	Basis of Selection and Eligibility Conditions	
B. A. (Hons.) Psychology	One language and three other academic subjects (List A)	Minimum aggregate of 45% marks in qualifying exam. The merit shall be determined on the basis of one language and three academic / elective subjects.	
B. B. A. [FIA] (Bachelor of Business Admn.)	Mathematics, one language (English) and two other academic subjects (List A)	Entrance Examination Ranking / GD Result	
B. M. S. (Bachelor of Business Mgmt.)	Mathematics, one language (English) and two other academic subjects (List A)	Entrance Examination Ranking / GD Result	
B. Sc. (Hons.) Biochemistry	Chemistry, Biology/ Biotechnology and Physics/ Mathematics i.e. PCB or CBM	Students having at least 55% or more in the aggregate in PCB or CBM (Theory and Practical together) and passing in one compulsory language (i.e. English) or Students having at least 55% or more in the aggregate in PCB or CBM (Theory and Practical together) and 50% marks in one compulsory language.	
B. Sc. (Hons.) Biomedical Science	Physics, Chemistry, Biology/Biotechnology	Students having at least 55% in PCB / BT. At least 50% marks in English (compulsory subject). Students having Mathematics (at least 60% marks) will be given an advantage of 3% over and above their PCB / BT aggregate.	
B. Sc. (Hons.) Chemistry; Physics; Instrumentation; Electronics	Physics, Chemistry, Mathematics	The overall percentage in PCM should be 55% and marks in one compulsory language should be 50%. Selection will be made on the basis of aggregate marks in 3 subjects mentioned in column 2.	
B. Sc. (Hons.) Computer Science	Mathematics, one language and two other subjects listed as academic subjects (List A)	Should have secured a) 60% or more marks in Mathematics b) 60% or more marks in aggregate of four subjects including Mathematics, one language and two other subjects listed as Academic Subjects	The admission would be based on the aggregate of marks scored in class XII in best four academic subjects inclusive of one language, Mathematics and two out of Physics, Chemistry and Computer Science/ Informatic Practices. The students from other streams, (with Mathematics in Class XII), will have a disadvantage of 2% in aggregate of required four subjects, i.e. Mathematics + one language + two academic subjects from those streams.
B. Sc. (Hons.) Food Technology	Physics, Chemistry, Mathematics / Biology / Biotechnology	Selection will be made on the basis of PCM / PCB/BT whichever is higher & marks in one compulsory language (i.e. English) should be 50%. 3% relaxation for candidates having PCMB subjects.	
B. Sc. (Hons.) Mathematics and Statistics	Mathematics, one language and two other subjects listed as academic subjects (List A)	50% marks in Mathematics and an aggregate of 45% in the qualifying examination. The merit shall be determined on the basis of one language, Mathematics & two best academic/elective subjects (List A).	
B. Sc. (Hons.) Microbiology	Physics, Chemistry and Biology / Biotechnology	Students having at least 55% in PCB (Theory and Practical together). At least 50% marks in English (compulsory subject).	

### List A (Academic / Elective Subjects)

Arabic	English	Italian	Psychology
Bengali	French	Legal Studies	Sanskrit
Botany	Geography	Mathematics	Sociology
Biology/Biotechnology	Geology	Persian	Spanish
Chemistry	German	Philosophy	Statistics
Commerce /Business Studies	Hindi	Physics	Urdu
Computer Science/ Informatics Practices	History	Political Science	Zoology
Economics	Home Science	Punjabi	Accountancy

# The Faculty

**Dr. Payal Mago** (Principal)  
Ph.D. (Botany), M.Sc. (Botany),  
University of Delhi

## DEPARTMENT OF BIOLOGY & MICROBIOLOGY

**Dr. Rekha Mehrotra\*** (Associate Professor)  
Ph.D. (Genetics), M.Phil (Botany), M.Sc. (Botany),  
University of Delhi

## DEPARTMENT OF BIOCHEMISTRY

**Dr. Sadhna Jain\*** (Associate Professor)  
Ph.D. (Biochemistry), M.Sc. (Biochemistry)  
University of Delhi

## DEPARTMENT OF BIOMEDICAL SCIENCE

**Dr. Radhika Bakshi\*** (Assistant Professor)  
Ph.D. (Biochemistry) AIIMS, M.Sc. (Biochemistry),  
University of Delhi

**Dr. Shruti Banswal** (Assistant Professor)  
Ph.D. (Molecular Biology & Biotechnology), IARI Delhi  
M.Sc. (Plant Molecular Biology),  
University of Delhi

**Dr. Varsha Mehra** (Assistant Professor)  
Ph.D. (Biomedical Sciences) University of Delhi,  
M.Sc. (Biotechnology), JNU

**Dr. Mohd. Saquib Ansari** (Assistant Professor)  
Ph.D. (Biochemistry), M.Sc. (Biochemistry)  
Bundelkhand University

**Dr. Indu Arora** (Assistant Professor)  
Ph.D. (Chemistry), M.Sc. (Chemistry),  
University of Delhi

## DEPARTMENT OF CHEMISTRY

**Dr. Jasjeet Kaur\*** (Associate Professor)  
Ph.D. (Biotechnology), M.Sc. (Chemistry),  
Punjabi University, Patiala

## DEPARTMENT OF COMPUTER SCIENCE

**Dr. Suruchi Chawla\*** (Assistant Professor)  
Ph.D. (Computer Science), University of Delhi,  
M.Tech. (Computer Science & Engineering),  
Kurukshetra University

**Ms. Deepali Bajaj** (Assistant Professor)  
M.Phil. (Computer Science), Madurai Kamraj  
University, MCA (IGNOU)  
Pursuing Ph.D. from University of Delhi

**Dr. Aakanksha** (Assistant Professor)  
Ph.D. (Computer Science) from University of Delhi, M.Phil.  
(Computer Science) Madurai Kamraj University, M.Sc.  
(Computer Science), Banasthali Vidyapeeth

\* Teacher Incharge

## DEPARTMENT OF ELECTRONICS

**Ms. Venika Gupta** (Associate Professor)  
M.Phil. (Electronics), M.Sc. (Electronics),  
University of Delhi

**Ms. Preeti Singhal\*** (Associate Professor)  
M.Phil. (Electronics), M.Sc. (Electronics),  
University of Delhi

**Dr. Amita Kapoor** (Associate Professor)  
Ph.D. (Opto-Electronics), University of Delhi,  
M.Sc. (Electronics), Jamia Millia Islamia

## DEPARTMENT OF FOOD TECHNOLOGY

**Dr. Ranjana Singh** (Associate Professor)  
Ph.D. (Food Tech), M.Sc. (Food Tech),  
G. B. Pant University

**Dr. Deepa Joshi\*** (Associate Professor)  
Ph.D. (Dairying), NDRI, Karnal, M.Sc. (Food Tech),  
G. B. Pant University

**Ms. Para Dholakia** (Assistant Professor)  
M.Sc. (Food & Nutrition), M.S., University of Baroda, Pursuing  
Ph.D. from University of Delhi

## DEPARTMENT OF INSTRUMENTATION

**Dr. Daya Bhardwaj** (Assistant Professor)  
Ph.D., TERI University,  
M.Sc. (MICA) Jiwaji University

**Dr. Sneha Kabra\*** (Assistant Professor)  
Ph.D. (Electronics), M.Sc. (Electronics),  
University of Delhi

## DEPARTMENT OF MANAGEMENT STUDIES

**Dr. Suruchi Chawla** (Co-ordinator)

## DEPARTMENT OF MATHEMATICS

**Dr. Punita Saxena\*** (Associate Professor)  
Ph.D. (Mathematics) Jamia Millia Islamia,  
M.Phil., M.Sc. (Mathematics), University of Delhi

## DEPARTMENT OF PHYSICS

**Dr. Alka Vohra Kuanr\*** (Associate Professor)  
Ph.D. (Physics), M.Sc. (Physics), University of Delhi

## DEPARTMENT OF PSYCHOLOGY

**Dr. Daya Bhardwaj** (Co-ordinator)

## DEPARTMENT OF STATISTICS

**Dr. Punita Saxena** (Co-ordinator)

## DEPARTMENT OF PHYSICAL EDUCATION & SPORTS

**Ms. Venika Gupta** (Co-ordinator)

## LIBRARY

**Dr. Projes Roy** (Librarian)  
Ph.D. (Library & Information Sciences),  
University of Delhi, M.Sc., M.D. (Public Admn.),  
C.A.L.I.W., D.C.A.

## Biochemistry

The Department conducts B.Sc. (Honors) Biochemistry which is a three year program consisting of six semesters. The curriculum includes the study of molecules of life, an extensive tour of the cell, the study of proteins, enzymes and their correlation with human health and diseases, nutrition, metabolism, immunology, genetics, molecular biology to name some. This curriculum gives them a leverage to choose their masters programmes and industrial jobs in a wide variety of disciplines giving the students an edge over other curricula.

The department is located at the ground floor in the academic block. The laboratories are well equipped with basic and advanced instruments ranging from weighing balance, pH meter to UV visible spectrophotometer and refrigerated centrifuges to perform all kinds of experiments required for the undergraduate curriculum. The lab was also involved in conducting research in the form of innovation projects.

Spectroscopy and chromatography form the building blocks for the students in polishing their skills for industry as well as research. Biochemistry laboratory has incubator, Fraction collectors, Centrifuges, UV Visible Spectrophotometer, Electrical and Analytical Balance. It is also equipped with Vacuum Dessicator, Hot Air Oven, Universal Oven, Electrophoretic Apparatus, Magnetic Stirrer, Chromatography Chamber and Electric Tissue Grinder.

“Vinculum” the student society of the department organises seminars and interactive sessions with eminent personalities to keep them updated with latest research developments.

Educational visits are organized for the students to various academic and industrial institutions, to keep them upraised about the recent advances in science and technology. This will also help them choose their careers in higher studies or industrial jobs. In the last semester the students visited Dabur Research Foundation, which is a state of art laboratory working on preclinical drug validation for international pharmaceutical companies and also developing cheaper indigenous life saving and chemotherapeutic drugs for cancer.

To live a healthy life we need to have clean and healthy environment, it is the responsibility of each one of us to take care of our environment, on that front a drive, “Say no to Plastics” is being very religiously followed and each student is provided with a ceramic cup to minimize the use of plastics.

Apart from academics the aim is a holistic development of the students, different festivals are celebrated to enrich the students with our cultural heritage.



## B.Sc. (Hons.) Biochemistry

Semester 1	Semester 2
C-I : Molecules of Life C-II: Cell Biology AECC-I: English/MIL Communication or EVS GE-I: Generic Elective	C-III : Proteins C-IV : Enzymes AECC-II : EVS or English/MIL Communication GE-II : Generic Elective
Semester 3	Semester 4
C-V : Metabolism of Carbohydrates and Lipids C-VI : Membrane Biology and Bioenergetics C-VII : Hormone – Biochemistry and Function SEC-I : Skill Enhancement Course GE-III : Generic Elective	C-VIII: Human Physiology C-IX: Gene Organisation, Replication and Repair C-X : Metabolism of Amino Acids and Nucleotides SEC-II : Skill Enhancement Course GE-IV : Generic Elective
Semester 5	Semester 6
C-XI: Concepts in Genetics C-XII: Gene Expression and Regulation DSE-I : Discipline Specific Elective DSE-II : Discipline Specific Elective	C-XIII : Genetic Engineering and Biotechnology C-XIV: Immunology DSE-III: Discipline Specific Elective DSE-IV : Discipline Specific Elective

C: Core Courses; GE: Generic Elective;AECC:Ability Enhancement Compulsory Course; SEC: Skill Enhancement Courses; DSE: Discipline Specific Elective

### Generic Elective Papers (for other departments)

(Any one per Semester in Semesters I-IV)

1. Biochemistry of Cell
2. Proteins and Enzymes
3. Intermediary Metabolism
4. Gene Organisation, Expression and Regulation
5. Fundamentals of Cell Biology and Immunology
6. Fundamentals of Genetic Engineering
7. Biochemical Correlations in Diseases

### Skill Enhancement Course

(Any one per Semester in Semesters III-IV)

1. Tools and Techniques in Biochemistry
2. Protein Purification Techniques

3. Clinical Biochemistry
4. Bioinformatics
5. Recombinant DNA Technology

### Discipline Specific Elective

(Any two per Semester in Semesters V-VI)

1. Nutritional Biochemistry
2. Research Methodology
3. Molecular Basis of Non-infectious Human Diseases
4. Molecular Basis of Infectious Diseases
5. Research Project
6. Advanced Cell Biology
7. Plant Biochemistry
8. Basic Microbiology



## Biomedical Science

Biomedical Science refers to the application of biology-based-science for medical use. B. Sc. (Hons.) Biomedical Science is a three year undergraduate programme that was started in Shaheed Rajguru of Applied Sciences for Women in 2005 with the objective to provide a strong platform in a wide range of medically related disciplines like human physiology, genetics, biochemistry, immunology, pathology and microbiology.

Subjects like bioinformatics, biophysics, toxicology, statistics , biotechnology, computational biology and medicinal chemistry in the curriculum makes this truly interdisciplinary which is the need for research in present scenario. The Department has state of the art laboratory facilities with latest equipments including thermocycler, UV spectro-photometer, gel electrophoresis units, centrifuges, incubators, shakers, autoclaves, and rotary vacuum, laminar flows which aptly supplement the theoretical knowledge with of the subjects with relevant hands on training.



The Biomedical Sciences Department has students' society "Chimera" which organises seminars and interactive sessions with eminent academicians and entrepreneurs to keep them abreast with latest research developments. An annual departmental scientific fest, "Plexus" is also organised to celebrate science, in which students are encouraged to participate, discuss and express for their overall personality development. The department regularly organizes conferences & workshops.

The department faculty is actively involved in research. The department has funding of six DU Innovation projects, in

the past year, which involves participation of undergraduate students in short-term research projects. Visits to various reputed research laboratories like RCB, Dabur, NBRC and ICGEB are also organised.

The Biomedical Science course equips the students with knowledge and transferable skills necessary for a career in research in both basic and applied sciences. The students graduating from this course join pharmaceutical companies and pursue higher education in reputed institutes like TIFR, Indian Institute of Science (IISc), NII, Jawaharlal Nehru University (JNU) to name a few. The course also provides avenues for self-employment such as establishing a diagnostic laboratory, freelance license inspector for pollution control in industries, setting up of a biotechnology unit for production of commercially available products, besides endless vistas for those interested in research in the any field of applied biology.

## B.Sc. (Hons.) Biomedical Science

Semester 1	Semester 2
C-I BMS-101 : Bioorganic Chemistry C-II BMS-102 : Cell and Radiation Biology AECC-I : English/MIL Communication or EVS GE-I : Generic Elective	C-III BMS-201 : Principles of Genetics C-IV BMS-202 : Human Physiology & Anatomy I AECC-II : EVS or English/MIL Communication GE-II : Generic Elective
Semester 3	Semester 4
C-V BMS-301 : Biochemistry C-VI BMS-302 : Human Physiology & Anatomy II C-VII BMS-303 : Medical Microbiology SEC-I : Skill Enhancement Course GE-III : Generic Elective	C-VIII BMS-401 : Immunobiology C-IX BMS-402 : Molecular Biology C-X BMS-403 : Medicinal Chemistry SEC-II : Skill Enhancement Course GE-IV : Generic Elective
Semester 5	Semester 6
C-XI BMS-501 : Biophysics C-XII BMS-502 : Pharmacology DSE-I : Discipline Specific Elective DSE-II : Discipline Specific Elective	C-XIII BMS-601 : Human Pathology C-XIV BMS-602 : Toxicology DSE-III : Discipline Specific Elective DSE-IV : Discipline Specific Elective

C : Core Courses; GE : Generic Elective; AECC : Ability Enhancement Compulsory Course; SEC : Skill Enhancement Courses; DSE: Discipline Specific Elective

**GE 1-4 : Generic Electives (for other departments)  
(any one per semester in semesters 1-4)**

- BMS-G1 : Basics of Immunology
- BMS-G2 : Biological Chemistry
- BMS-G3 : Biosafety and Bioethics
- BMS-G4 : Biostatistics
- BMS-G5 : Bridging Information Technology and Biotechnology
- BMS-G6 : Concepts in Biotechnology
- BMS-G7 : Concepts in Medicinal Chemistry and Drug Development
- BMS-G8 : Intellectual Property Rights (IPR) for Biologists
- BMS-G9 : Pathological Basis of Disease
- BMS-G10 : Pharmacology and Toxicology
- BMS-G11 : Tools and Model Organisms in Biomedical Research

**SEC 1-2 : Skill Enhancement Courses  
(any one per semester in semesters 3-4)**

- BMS-S1 : Methods in Epidemiological Data Analysis (EDA)
- BMS-S2 : Medical Laboratory Diagnostics (MLD)
- BMS-S3 : Techniques for Forensic Science
- BMS-S4 : Tools in Modern Biology

**DSE 1-4 : Discipline Specific Elective (for other department)  
(any two per semester in semesters 5-6)**

- BMS-A : Computational Biology and Drug Discovery
- BMS-B : Genome Organization and Function
- BMS-C : Human Genetics
- BMS-D : Medical Biochemistry
- BMS-E : Medical Biotechnology
- BMS-F : Project Work (can be chosen only in semester 6)



## Chemistry

The Department of Chemistry conducts a three year programme B.Sc. (Hons.) Chemistry. The department has four well-equipped laboratories including a research laboratory. The laboratories cater to three broad branches of chemistry viz. inorganic, organic, physical chemistry and chemistry papers of other departments. Several research projects including Innovation projects have been carried out in the research laboratory.

The labs are well equipped with various instruments like uv-vis spectrophotometer, electronic balances, centrifuge-microprocessor based, 16,000 rpm magnetic stirrers with hot plate, vortex shaker, rotary vacuum pumps, digital pH meter, digital and electric melting point apparatus, distillation units, fume hood etc.

Students of the department actively participate in various extracurricular activities and are members of different societies. Besides, time to time they attend national level conferences and seminars to keep themselves abreast in various recent innovations and developments in the field.

The Department has a vibrant chemical society “Alchemy” where students and teachers interact beyond classroom. The society organises popular lectures on regular basis to enrich its members with latest developments across the globe. Department organises technical festival and workshops aimed at enriching the teaching faculty and para-teaching faculty. Educational excursion educate the students beyond classroom.



## B.Sc. (Hons.) Chemistry

Semester 1	Semester 2
AECC-I : English/MIL Communication or EVS Core Course-I : Inorganic Chemistry-I Core Course-II : Physical Chemistry-I Core Course-I Practical : Inorganic Chemistry-I Lab Core Course-II Practical : Physical Chemistry-I Lab Generic Elective-1	AECC-II : EVS or English/MIL Communication Core Course-III : Organic Chemistry-I Core Course-IV : Physical Chemistry-II Core Course-III Practical : Organic Chemistry-I Lab Core Course-IV Practical : Physical Chemistry-II Lab Generic Elective-2
Semester 3	Semester 4
Core Course-V : Inorganic Chemistry-II Core Course-VI : Organic Chemistry-II Core Course-VII : Physical Chemistry-III Core Course-V Practical : Inorganic Chemistry-II Lab Core Course-VI Practical : Organic Chemistry-II Lab Core Course-VII Practical : Physical Chemistry-III Lab Skill Enhancement Course-1 Generic Elective-3	Core Course-VIII : Inorganic Chemistry-III Core Course-IX : Organic Chemistry-III Core Course-X : Physical Chemistry-IV Core Course-VIII Practical : Inorganic Chemistry-III Lab Core Course-IX Practical : Organic Chemistry-III Lab Core Course-X Practical : Physical Chemistry-IV Lab Skill Enhancement Course-2 Generic Elective-4
Semester 5	Semester 6
Core Course-XI : Organic Chemistry-IV Core Course-XII : Physical Chemistry-V Discipline Specific Elective-1 Discipline Specific Elective-2 Core Course-XI Practical : Organic Chemistry-IV Lab Core Course-XII Practical : Physical Chemistry-V Lab Discipline Specific Elective-1 Practical Discipline Specific Elective-2 Practical	Core Course-XIII : Inorganic Chemistry-IV Core Course-XIV : Organic Chemistry-V Discipline Specific Elective-3 Discipline Specific Elective-4 Core Course-XIII Practical : Inorganic Chemistry-IV Lab Core Course-XIV Practical : Organic Chemistry-V Lab Discipline Specific Elective-3 Practical Discipline Specific Elective-4 Practical

### Core Papers

- Inorganic Chemistry I : Atomic Structure & Chemical Bonding
- Physical Chemistry I : States of Matter & Ionic Equilibrium
- Organic Chemistry I : Basics and Hydrocarbons
- Physical Chemistry II : Chemical Thermodynamics and its Applications
- Inorganic Chemistry II : s-and p-Block Elements
- Organic Chemistry II : Oxygen Containing Functional Groups
- Physical Chemistry III : Phase Equilibria and Electrochemical Cells
- Inorganic Chemistry III : Coordination Chemistry
- Organic Chemistry III : Heterocyclic Chemistry
- Physical Chemistry IV : Conductance & Chemical Kinetics
- Organic Chemistry IV : Biomolecules
- Physical Chemistry V : Quantum Chemistry & Spectroscopy
- Inorganic Chemistry IV : Organometallic Chemistry
- Organic Chemistry V : Spectroscopy

### Discipline Specific Elective Papers (Credit : 06 each) (4 papers to be selected) (for other department)

DSE 1 : Any one of the following :

- Novel Inorganic Solids
- Inorganic Materials of Industrial Importance

DSE 2-4 : Choose any three of the following :

- Applications of Computers in Chemistry
- Analytical Methods in Chemistry
- Molecular Modelling & Drug Design
- Polymer Chemistry
- Research Methodology for Chemistry
- Green Chemistry
- Industrial Chemicals & Environment
- Instrumental Methods of Analysis
- Dissertation

### Other Discipline : GE 1 to GE 4

- Mathematics
- Physics
- Computer Science

### Skill Enhancement Courses

- IT Skills for Chemists
- Basic Analytical Chemistry
- Chemical Technology & Society
- Chemoinformatics
- Business Skills for Chemists
- Intellectual Property Rights
- Analytical Clinical Biochemistry
- Green Methods in Chemistry
- Pharmaceutical Chemistry
- Chemistry of Cosmetics & Perfumes
- Pesticide Chemistry
- Fuel Chemistry

### Generic Elective Papers (any four) for other Departments/ Disciplines

- Atomic Structure, Bonding, General Organic Chemistry & Aliphatic Hydrocarbons
- Chemical Energetics, Equilibria & Functional Group Organic Chemistry-I
- Solutions, Phase Equilibrium, Conductance, Electrochemistry & Functional Group Organic Chemistry-II
- Chemistry of s-and p-block elements, States of matter and Chemical Kinetics
- Chemistry of d-block elements, Quantum Chemistry and Spectroscopy
- Organometallics, Bioinorganic chemistry, Polynuclear hydrocarbons and UV, IR, Spectroscopy
- Molecules of life

At least two mathematics papers are compulsory for admission to M.Sc. (Chemistry) in University of Delhi.

## Computer Science

The Department conducts B.Sc. (Hons.) Computer Science which is a three year program consisting of six semesters. The students are given exposure in the field of DBMS, Computer Networks, Software Engineering, Unix Scripting, Computer Graphics, Algorithms, Information Security, Data Mining and Internet Technologies. In this course the students are imparted programming skills in C++, application of C++ in Data Structure, Network Programming. The curriculum provides extensive Laboratory sessions where students implement the concepts which they learn in theory. This course provides tremendous employment opportunities in industries at graduation level and the students expertise in the field of programming, web designing, internet technologies, etc. Over the past few years the department has provided excellent infrastructure for executing software skills using the latest software development tools and technologies. The department has 5 well equipped ICT enabled labs with :

- About 150 computers with latest computer configuration – Intel core i7, 3.4 GHz processors with 4 GB RAM, 64 bit operating System with Wi-Fi connectivity;
- 3 High-end HP servers and Laptops;
- A good combination of Licensed Software and Free/Open Source Software to enrich student practical experience;
- 4 color laser printer, 20 laser printers and 10 scanners; and
- Each lab has LCD projectors which are used as a teaching aid for seminars and presentations.

It has latest software like Turbo C++, Oracle 10Gi, Strawberry Prolog, Multimedia Tools, Red Hat Linux, Visual Studio, Developer 2000, Windows NT server, Fortran 90 etc. To enhance the spirit of research work among students the labs are equipped with internet facility to provide e-journals to the students. Laboratory network is further equipped with CISCO 2900 series routers, CISCO 1900 switches 24 Port full Duplex, Bay stack 425 24 T switches, 16 port hubs, cable testers etc.

Computer Science Department has one specialized CCNA (Cisco Certified Network Associate) Lab as well where students are given hands-on training about CISCO routers, switches, bridges etc. Department also has various utility rooms like programmer room, server room, departmental library, UPS room, teaching rooms and technical staff room. Department has skilled lab staff which includes a Scientific Assistant, Technical Assistant, Lab Assistants and Lab Attendants to manage the lab work efficiently.



### B.Sc. (Hons.) Computer Science

Semester 1	Semester 2
C-I : Programming Fundamentals using C++ C-II : Computer System Architecture AECC-I : English/MIL Communication or EVS GE-I	C-III : Programming in JAVA C-IV : Discrete Structures AECC-II : EVS or English/MIL Communication GE-II
Semester 3	Semester 4
C-V :Data Structures C-VI : Operating Systems C-VII : Computer Networks SEC-I : Android Programming GE-III	C-VIII : Design and Analysis of Algorithms C-IX : Software Engineering C-X : Database Management Systems SEC-II : PHP Programming GE-IV
Semester 5	Semester 6
C-XI : Internet Technologies C-XII : Theory of Computation DSE-I DSE-II	C-XIII : Artificial Intelligence C-XIV : Computer Graphics DSE-III DSE-IV

C : Core Courses; GE : Generic Elective; AECC : Ability Enhancement Compulsory Course; SEC : Skill Enhancement Courses; DSE: Discipline Specific Elective

**Discipline Specific Elective Papers : (Credit : 06 each)**

**DSE-I (any one)**

- a) System Programming
- b) Numerical Methods
- c) Operational Research for Computer Science

**DSE-II (any one)**

- a) Microprocessor
- b) Modeling and Simulation
- c) Advanced Algorithms

**DSE-III (any one)**

- a) Machine Learning
- b) Introduction to Data Sciences

- c) Combinatorial Optimization

**DSE-IV (any one)**

- a) Digital Image Processing
- b) DataMining
- c) ProjectWork/Dissertation

**General Elective Papers (GE)**

**(Minor - Computer Science) for other Departments / Disciplines : (Credit : 06 each)**

- GE-I Introduction to Programming
- GE-II Introduction to Data base Systems
- GE-III Computer Networks and Internet Technologies
- GE-IV Information Security & Cyber Laws



## Electronics

The department conducts B.Sc. (Hons.) Electronics which is a three year degree program. The department has seen a considerable growth since its inception in 1989. The vision and aim of the department is to offer high quality education in the field of electronics to address the growing challenges of tomorrow. Circuit and Networks, Digital and Analog, Communication, Microprocessor, Optoelectronics and Electronics Simulation are some of the laboratories. These laboratories are equipped with storage oscilloscopes, function generators, power supplies, multi meters, sophisticated 8085/8086 microprocessor trainer kits etc. and latest electronic software. The department has a small library which is used by the faculty and students during practicals and otherwise. The laboratories have about 45 systems with Internet facility available for both staff and students to access web.

The department regularly organizes seminars, workshops and training programs to keep pace with the new developments and recent trends in relevant technologies. To enable students to develop skills to solve complex technological problems and also for promoting collaborative and multidisciplinary activities many of our students and faculty worked on innovation projects funded by University of Delhi. The department also promotes value based education by supporting students to involve in community services as a social responsibility. Annually a technical fest "Electromania" is organized by department's student council.



## B.Sc. (Hons.) Electronics

Semester 1	Semester 2
C-I : Basic Circuit Theory and Network Analysis C-II : Mathematics Foundation for Electronics AECC-I : English/MIL Communication or EVS GE-I	C-III : Semiconductor Devices C-IV : Applied Physics AECC-II : EVS or English/MIL Communication GE-II
Semester 3	Semester 4
C-V : Electronic Circuits C-VI : Digital Electronics and VHDL C-VII : C Programming and Data Structures SEC-I GE-III	C-VIII : Operational Amplifiers and Applications C-IX : Signals and Systems C-X : Electronic Instrumentation SEC-II GE-IV
Semester 5	Semester 6
C-XI : Microprocessors and Microcontrollers C-XII : Electromagnetics DSE-I DSE-II	C-XIII : Communication Electronics C-XIV : Photonics DSE-III DSE-IV

C : Core Courses; GE : Generic Elective; AECC : Ability Enhancement Compulsory Course; SEC : Skill Enhancement Courses; DSE: Discipline Specific Elective

### Discipline Specific Electives (DSE) (Credit : 06 each)

(4 papers to be selected) DSE I-IV

1. Power Electronics
2. Numerical Analysis
3. Modern Communication Systems
4. Semiconductor Fabrication and Characterization
5. Electrical Machines
6. Basic VLSI Design
7. Digital Signal Processing
8. Control Systems
9. Computer Networks
10. Embedded Systems
11. Biomedical Instrumentation
12. Transmission Lines, Antenna & Wave Propagation
13. Dissertation

### Skill Enhancement Course (SEC) (02 papers)

(Credit : 02 each) SEC-I to SEC-II

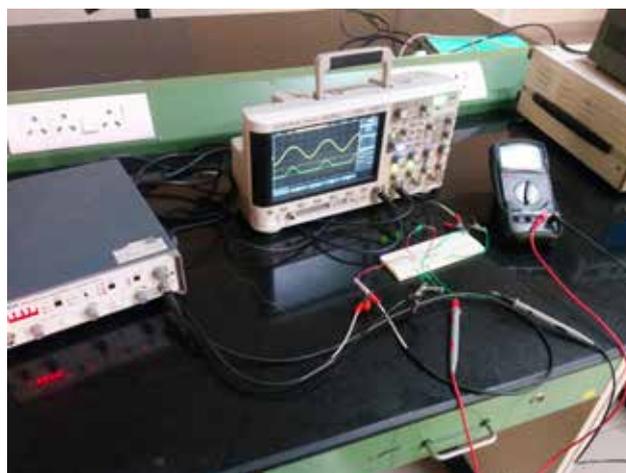
1. Design and Fabrication of Printed Circuit Boards
2. Robotics
3. Mobile Applications Development
4. Internet and Java Programming
5. Programming with LabVIEW

### Other Discipline GE-I to GE-IV

1. Mathematics
  2. Computer Science
  3. Physics
  4. Biomedical Science
  5. Chemistry
  6. Commerce
- Any other discipline of Choice

### Generic Elective Papers (GE) for other Departments/ Disciplines (Credit : 06 each)

1. Electronic Circuits and PCB Designing
2. Digital System Design
3. Instrumentation
4. Practical Electronics
5. Communication Systems
6. Microprocessor and Microcontroller Systems
7. Consumer Electronics



## Food Technology

The department offers B.Sc. (Hons.) in Food Technology. The main department is located on ground floor and the pilot plants are in the basement area. There are seven main labs viz. analytical lab 1 and 2, food microbiology lab, food and nutrition lab, sensory evaluation lab, food engineering lab and analytical instrumentation lab.

There are additional rooms for culture inoculation, sample weighing and sample digestion equipped with laminar flow chamber, electronic balances and digestion facilities respectively. The pilot plant I houses bakery and ice-cream unit and pilot plant II houses canning unit, dehydration unit, fluidized bed freezer and deep freezer. The departmental library has reference books, project reports and product development literature with computers and internet facilities for the students.

The analytical labs have moisturemeter, bursting strength tester, vacuum oven, brookfield viscometer (digital and analog), Abbes refractometer, penetrometer, hydrometer, soxhlet unit, uv visible spectrophotometer, dehydrator, muffle furnace, polarimeter, Lovibond tintometer, Kjeldahl unit, Ball mill, vacuum evaporator, Cobb tester, vacuum packaging machine, fermenter, Digital microscope and RM-PV estimation assembly. Bakery unit has planetary mixer, baking ovens, dough kneader, bread slicer, dough sheeter, bun cutter, sugar grinding mill, kitchen aid mixer etc. Microbiology lab has autoclave, incubators, binocular microscopes, BOD incubator, air sampler, Millipore filtration assembly, laminar air flow chamber, electronic colony counters etc.

The advanced facilities include HPLC system, texture analyzer, atomic absorption spectrophotometer, rancimat, fat analyser, protein analyser, Reverse Osmosis plant and SO<sub>2</sub> estimation assembly.

The department celebrates world food day each year and organizes workshop, training, invited lectures and seminars on regular basis to update students about the latest development in the field. Department of Food Technology has successfully completed innovation projects funded by Delhi University and has submitted different projects in various organizations. Alumni of the department of food technology are placed in reputed institutes and industries. Students of the department have also received national and international awards in various forums of food science and technology. The Department has received a grant of fifty lakhs from Ministry of Food Processing towards purchase of various sophisticated equipments in the past. Department also has DBT star college grant along with two other departments of the college.

Educational visits of the students are also organized by the department to various industries and research institutes like NDRI-Karnal, Mother dairy-Delhi, Safal-Delhi and Yakult-Sonipat. Students get selected in reputed colleges in India and abroad to pursue higher education like CFTRI- Mysore, Indian institute of packaging-Delhi and Mumbai, NDRI-Karnal, NIFTEM Sonipat and University of Neitherland. Students also get placed in various food industries like Mother dairy-Delhi and Yakult-Sonipat. Department is

focusing to train the students in new product development and has an entrepreneurship development cell for skill enhancement.

Students of the department are also involved in writing research and review papers for their projects and are also sent to various industries for summer internships.



The Department in collaboration with other departments of College organized a workshop entitled “Wonders of Science” for students of East Delhi School under the DBT Star College Scheme outreach activity.

Department in collaboration with other departments of College also organized a one week Para teaching staff skill enhancement Workshop (PTSSEW) December, 2017 jointly sponsor by IEEE Delhi chapter, UGC and DBT Star College Scheme.

## B.Sc. (Hons.) Food Technology

Semester 1	Semester 2
C-I : Fundamentals of Food Technology C-II : Principles of food Science AECC-I : English Communication/MIL or EVS GE-I*	C-III : Technology of Food Preservation C-IV : Food Processing Technology AECC-II : English Communication/MIL or EVS GE-II*
Semester 3	Semester 4
C-V: Food and Nutrition C-VI: Tech. of Fruits, Vegetables & Plantation Crop C-VII : Technology of Dairy and Sea Foods SEC-I* GE-III*	C-VIII : Technology of Cereals, Pulses and Oil Seeds C-IX : Food Microbiology C-X : Technology of Meat, Poultry and Egg SEC-II* GE-IV*
Semester 5	Semester 6
C-XI : Food Engineering C-XII : Food Chemistry-I DSE-I* DSE-II*	: Food Chemistry-II : Food Quality and Sensory Evaluation DSE-III* DSE-IV*

C : Core Courses; GE : Generic Elective; AECC : Ability Enhancement Compulsory Course; SEC : Skill Enhancement Courses; DSE: Discipline Specific Elective

\*Any4DSE,2SECand4GETobepicked up by the student.

### Discipline Specific Elective (Any four) (for other department)

Credits : 4+2 (4 Period Theory and 4 Period Practical per Week)

1. Food Safety
2. Food Quality Management
3. Bakery Technology
4. Food Packaging
5. Nutraceutical and Functional Foods
6. Food Plant Sanitation

### Generic Elective (Any four)

Credits : 4+2 (4 Period Theory and 4 Period Practical per Week)

1. Food Processing and Preservation
2. Chemistry of Food
3. Sensory Evaluation of Food
4. Food Microbiology and Food safety
5. Food Engineering and Packaging
6. Technology of Plant and Animal Foods

### Skill Enhancement Elective (Any two)

Credits : 2 (2 Period Theory + 4 Period Practical per Week or 1 Period theory + 2 Period Practical per Week)

1. Entrepreneurship Development
2. Food Product Development
3. Food Fermentation Technology
4. Confectionary Technology
5. Project and Technical Report



## Instrumentation

The Department has developed modern research facility and infrastructure to support the teaching and research activities. The department has five major laboratories based on curriculum : Analytical Instrumentation Laboratory supported by a Wet Laboratory, Biomedical Instrumentation Laboratory, Electronics Instrumentation & Electrical Machine Laboratory, Microprocessor Lab and Industrial Instrumentation Laboratory.

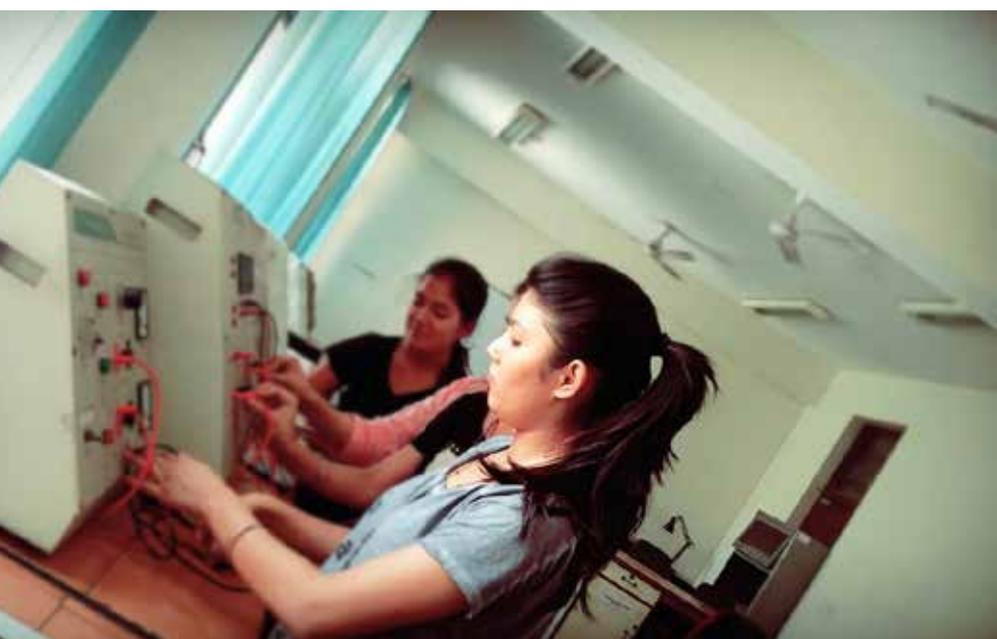
The Analytical laboratory is well equipped with HPLC, GLC, Karl Fischer Titrator, pH meter, UV-Vis Spectrophotometer, Photometer, Flame Photometer, FTIR Spectrophotometer, and Rotary Vacuum Evaporator. The Biomedical laboratory has biomedical kits which are used to measure EEG, ECG, EMG, pulse rate, respiration rate etc. The lab also has ELISA reader, Biochemistry Analyzer, Biomedical Scanner, PCR machine, Blood cell counter and ultrasound machine. Electronics Instrumentation and Electrical Machine Laboratory have various equipments like series and shunt DC Motors, induction motors, etc. Micro-processor lab is equipped with 8085 kits to train students for programming and designing new projects. Industrial Instrumentation lab has instruments like orifice meter, DC calibration meter, level transmitter, Ultrasonic flow meter, ratio controller, pressure gauge calibrator, magnetic flow meter, circular chart recorder etc.

The Department organizes workshop, training, invited lectures and seminars on regular basis to update students about the latest development in the field.

The Department in collaboration with other departments of College organized a workshop entitled “Wonders of Science” for students of East Delhi School under the DBT Star College Scheme outreach activity. Department in collaboration with other departments of College also organized a one week Para teaching staff skill enhancement Workshop (PTSSEW) December, 2017 jointly sponsor by IEEE Delhi chapter, UGC and DBT Star College Scheme

Department of Instrumentation organized a one day training on SILVACO TCAD in July, 2017, a talk on “Evolution of Electronics and VLSI Design” in October 2017, a talk on Emerging Semiconductor Devices and its applications in April 2018 in collaboration with IEEE - EDS Delhi Chapter,

Department organized inter college technical fest “Technexus” in October, 2017. These fests are organized every year with the objective to provide platform for students to showcase their talent with the competitive spirit, a talk on Artificial Intelligence in January, 2018 in collaboration with ROBOT/CA, Robotics club of college, three day workshop on “Multisim Software” in June 2017, a talk cum interaction session with Alumni under activity “Vyakhyan, one day educational visit to Jubilant Generics and Chemsys, Noida in Nov 2017



Department of Instrumentation along with department of Food Technology and Bio- medical science participated in the open day at Translational Health Science and Technology Institute (THSTI) in September, 2017,

Department of Instrumentation in collaboration with Department of Electronics also organized an excursion trip to McLeodganj, Himachal Pradesh in March, 2018.

Department provided 5 weeks training to M.5c. (F) Forensic Science, students during January 2018 to February 2018. They were trained on Analytical Instruments used in Forensic analysis.

## B.Sc. (Hons.) Instrumentation

Semester 1	Semester 2
C-I : Basic Electronics and Network Analysis C-II : Applied Physics AECC-I : English/MIL Communication or EVS GE-I	C-III : Analog Devices and Circuits C-IV : Transducers and Sensors AECC-II : EVS or English/MIL Communication GE-II
Semester 3	Semester 4
C-V: Biomedical Instrumentation C-VI: Digital Electronics and VHDL C-VII : Engineering Mathematics SEC-I GE-III	C-VIII : Operational Amplifiers and Applications C-IX : Analytical Instrumentation C-X : Electronic Instrumentation SEC-II GE-IV
Semester 5	Semester 6
C-XI : Measurement Technology C-XII : Microprocessor DSE-I DSE-II	C-XIII : Power Electronics C-XIV : Control Systems DSE-III DSE-IV

C : Core Courses; GE : Generic Elective; AECC : Ability Enhancement Compulsory Course; SEC : Skill Enhancement Courses; DSE: Discipline Specific Elective

### Discipline Specific Electives (DSE)(Credit : 06 each)

(4 papers to be selected) DSE I-IV

1. Concepts of Chemistry (4+4)
2. Signal and Systems (4+4)
3. Advanced Analytical Instrumentation (4+4)
4. Communication System (4+4)
5. Advanced Biomedical Instrumentation (4+4)
6. Embedded System and Robotics (4+4)
7. Process Control Dynamics (4+4)
8. Reliability and Quality Control Techniques (4+4)
9. Dissertation (4+4)

### Generic Elective Papers (GE) (Minor - Instrumentation)

(any four) for other Departments/Disciplines

(Credit : 06 each)

1. Sensors and Actuators (4+4)
2. Electro-Mechanical Instruments(4+4)
3. Instrumentation & Control (4+4)
4. Analytical Instrumentation (4+4)
5. Nuclear & Biomedical Instrumentation (4+4)
6. Machine Intelligence (4+4)

### Skill Enhancement Course (SEC) (Credit : 02 each)

(2 papers to be selected) SEC-I & SEC-II

1. Programming in C (4)
2. VLSI Design and Verification (4)
3. Testing and Calibration (4)
4. PLC and SCADA (4)
5. Virtual Instrumentation (4)
6. Programming using MATLAB (4)

### Other Discipline GE-I to GE-IV

1. Mathematics
  2. Computer Science
  3. Physics
  4. Biomedical Science
  5. Chemistry
  6. Electronics
  7. Commerce
- Any other discipline of Choice



## Management Studies

The Department of Management Studies was envisaged in the year 2017 with a vision to be a pioneer in nurturing next generation leaders and change agents, strongly rooted in eternal values, fostering excellence in all the fields of society. The department is committed to fulfilling the mission of:

- Contributing towards excellence in leadership and management education to ensure its relevance to the needs of society and people around
- Nurturing young and dynamic leaders, entrepreneurs and policy makers of tomorrow who can solve complex organizational and managerial problems through providing an environment of collaborative and multidisciplinary activities
- Establishing as a centre of excellence in upcoming areas of management and finance by innovative and research activities among faculty and students

The department offers two undergraduate courses under the CBCS scheme– Bachelor of Management Studies (BMS) and Bachelor of Business Administration (Financial Investment Analysis) [BBA (FIA)]. Although being a new department it boasts of excellent infrastructure equipped with projectors, wifi facility etc. and efficient teaching methodology like case studies, presentations, role play etc. It is one among the only two colleges of University which offers the course BBA (FIA). It provides a well-equipped library where students devour books on topics such as Human Resource, Marketing, Operations, Finance, Economics etc. by famous authors and can access some of the most sought after journals.



The department organizes a plethora of activities like the annual departmental fest 'Idiara', trip and field visits which provide a platform for students to develop and enhance their managerial skills with practical know-how. Various seminars related to subjects are organized from time to time to keep the students abreast of the latest happenings in the business world. In addition to this lot of workshops related to leadership, personality development and social outreach programs are conducted. Many of these activities attract a huge number of participants from various management institutes.

BMS, especially at DU is perceived to be a Mini MBA which can fetch you great placement after you complete your MBA.

You would also be competent enough to start your own venture or continue forward with your parents/ family business. It will also provide you the opportunity to gain work experience during your holidays or attend a short-term management training program to strengthen the essential business strategies. The experience of working for a leading institution can be invaluable as it enables students to build strong capabilities to adapt to the constantly changing business environments in their future careers. The Department provides support and assistance to students for internships and placements. Some prospective fields where the students can go for internships are:

- Marketing: Assistant Brand Manager; Technical Marketing Assistant; Media Planner & Buyer
- Supply Chain Management: E-commerce Analyst
- Banking, Finance and Accountancy: Global Investment Manager; Mergers & Acquisitions Analyst; Audit or Tax Trainee; Treasury Assistant
- Human Resources: International Recruitment Consultant; Training Coordinator
- IT: Systems Analyst; Project Analyst

## Bachelor of Business Administration (Financial Investment Analysts) [BBA (FIA)]

Semester 1	Semester 2
C-I : Financial Accounting & Analysis C-II : Managerial Economics AECC-I : English/MIL Communication or EVS GE-I : Generic Elective	C-III : Statistics for Business Decisions C-IV : Cost & Management Accounting AECC-II : English/MIL Communication or EVS GE-II : Generic Elective
Semester 3	Semester 4
C-V : Income Tax C-VI : Corporate Finance C-VII : Financial Markets & Institutions SEC-I : Skill Enhancement Course GE-III : Generic Elective	C-VIII : Macro Economics C-IX : Quantitative Techniques C-X : Financial Econometrics SEC-II : Skill Enhancement Course GE-IV : Generic Elective
Semester 5	Semester 6
C-XI : Investment Analysis & Portfolio Management C-XII : Financial Derivatives DSE-I : Discipline Specific Elective DSE-II : Discipline Specific Elective	C-XIII : Corporate Restructuring C-XIV : International Finance DSE-III : Discipline Specific Elective DSE-IV : Discipline Specific Elective

C: Core Courses; GE: Generic Elective; AECC: Ability Enhancement Compulsory Course; SEC: Skill Enhancement Courses; DSE: Discipline Specific Elective

### Generic Elective Papers

(Any one per Semester in Semesters I-IV)

1. Entrepreneurship Development
2. Organisation Behaviour
3. Business Ethics & Corporate Governance
4. Production & Operations Management
5. Research Methodology
6. Economic Legislation
7. Indirect Taxes

### Skill Enhancement Course

(Any one per Semester in Semesters III-IV)

1. IT Tools for Business
2. Financial Software Package(s)
3. Personality Development & Communication Skills

4. Research Software Package
5. Summer Internship (6-8weeks)

### Discipline Specific Elective (for other department)

(Any two per Semester in Semesters V-VI)

1. Investment Banking & Financial Services
2. Corporate Analysis & Valuation
3. Business Tax Planning
4. International Trade Blocks and Multilateral Agencies
5. Corporate Accounting
6. Strategic Corporate Finance
7. Management of Financial Institutions
8. Forensic Analysis and Fraud Investigation
9. Research Project



## Bachelor of Management Studies [BMS]

Semester 1	Semester 2
C-I : Fundamentals of Management & Organisational Behaviour C-II : Statistics for Business Decisions AECC-I : English/MIL Communication or EVS GE-I : Generic Elective	C-III : Managerial Economics C-IV : Business Accounting AECC-II : English/MIL Communication or EVS GE-II : Generic Elective
Semester 3	Semester 4
C-V: Macroeconomics C-VI: Principles of Marketing C-VII: Management Accounting SEC-I : Skill Enhancement Course GE-III : Generic Elective	C-VIII: Business Research C-IX: Human Resource Management C-X : Financial Management SEC-II : Skill Enhancement Course GE-IV : Generic Elective
Semester 5	Semester 6
C-XI : Quantitative Techniques for Management C-XII : Legal Aspects of Business DSE-I : Discipline Specific Elective DSE-II : Discipline Specific Elective	C-XIII: Business Policy & Strategy C-XIV: Financial Institutions & Markets DSE-III : Discipline Specific Elective DSE-IV : Discipline Specific Elective

C: Core Courses; GE: Generic Elective; AECC: Ability Enhancement Compulsory Course; SEC: Skill Enhancement Courses; DSE: Discipline Specific Elective

### Generic Elective Papers

(Any one per Semester in Semesters I-IV)

1. Entrepreneurship Development
2. Ethics & Corporate Social Responsibility
3. Tax Planning
4. Econometrics
5. Production & Operations Management
6. India's Diversity & Business

### Skill Enhancement Course

(Any one per Semester in Semesters III-IV)

1. IT Tools for Business
2. Personality Development & Communication Skills
3. E-Commerce
4. Statistical Software Package(s)
5. Financial Software Package(s)

### Discipline Specific Elective (for other department)

(Any two per Semester in Semesters V-VI)

*A student would be free to choose any four papers from one group. The course offers mainly four groups viz. Finance (DSE-I), Marketing (DSE-II), Human Resource (DSE-III) and Management of Global Business (DSE-IV).*

#### DSE-I

1. International Finance
2. Investment Banking & Financial Services
3. Investment Analysis & Portfolio Management
4. Project Appraisal

5. Business Analysis & Valuation

6. Financial Modelling & Derivatives

7. Strategic Corporate Finance

#### DSE-II

1. Consumer Behaviour

2. Personal Selling & Sales Force Management

3. Advertising & Brand Management

4. Retail Management

5. Distribution & Supply Chain Management

6. Marketing of Services

7. International Marketing

#### DSE-III

1. HRD Systems & Strategies

2. Training & Development

3. Management of Industrial Relations

4. Performance & Compensation Management

5. Counselling & Negotiation Skills for Managers

6. Cross Cultural HRM

7. Talent & Knowledge Management

#### DSE-IV

1. International Trade Policy & Strategy

2. Global Business Environment

3. Transnational & Cross Cultural Marketing

4. International Distribution & Supply Chain Management

5. International Accounting & Reporting System

6. Multinational Business Finance

7. International Joint Ventures, Mergers & Acquisitions

## Mathematics

The department of Mathematics conducts a three year undergraduate programme, B.Sc(Hons) in Mathematics. The department has been instrumental in the functioning of the college since its inception in 1989. Mathematics is also taught to the students of other disciplines. The department is located on the second floor of the Academic Block. The department, at present has well equipped labs with high-speed computers with

broadband internet facility. The systems are installed with mathematical and statistical software such as MATLAB and Mathematica. The curriculum is designed in a manner where the students are trained in the theoretical and practical concepts. The department offers ample opportunities to students to explore and pursue research interests by collaborating with the other departments in research projects.

Students of the department are members of various cultural societies of the college and participate in inter-college competitions. The department has a dynamic mathematical society "Ramanarya". Lectures by eminent mathematicians and scholars are conducted from time to time under the banner of this society.



## B.Sc. (Hons.) Mathematics

Semester 1	Semester 2
C-I : Calculus C-II : Algebra AECC-I : English/MIL Communication or EVS GE-I	C-III : Real Analysis C-IV : Differential Equations AECC-II : EVS or English/MIL Communication GE-II
Semester 3	Semester 4
C-V : Theory of Real Functions C-VI : Group Theory-I C-VII : Multivariate Calculus SEC-I : LaTeX and HTML GE-III	C-VIII : Partial Differential Equations C-IX : Riemann Integration and Series of Function C-X : Ring Theory and Linear Algebra-I SEC-II : Comp. Algebra Systems & Related Softwares GE-IV
Semester 5	Semester 6
C-XI : Metric Spaces C-XII : Group Theory-II DSE-I DSE-II	C-XIII : Complex Analysis C-IV : Ring Theory and Linear Algebra-II DSE-III DSE-IV

C : Core Courses; GE : Generic Elective; AECC : Ability Enhancement Compulsory Course; SEC : Skill Enhancement Courses; DSE: Discipline Specific Elective

### Discipline Specific Electives (DSE) (Credit : 06 each)

#### DSE-I

- (i) Numerical Methods, or
- (ii) Mathematical Modeling Graph Theory, or
- (iii) C++ Programming

#### DSE-II

- (i) Mathematical Finance, or
- (ii) Discrete Mathematics, or
- (iii) Cryptography and Network Security

#### DSE-III

- (i) Probability Theory & Statistics, or
- (ii) Mechanics, or
- (iii) Bio-Mathematics

#### DSE-IV

- (i) Number Theory, or
- (ii) Linear Programming and Theory of Games, or
- (iii) Application of Algebra

### Generic Electives (GE) Papers (for other department)

#### Odd Semester

- GE-I : Calculus/Analytic Geometry
- GE-III : Differential Equations/ Linear Programming and Game Theory

#### Even Semester

- GE-II : Linear Algebra/ Discrete Mathematics
- GE-IV : Numerical Methods/Elements of Analysis

# Microbiology

The department of Microbiology is offering the 3-year B. Sc. (Hons.) Microbiology programme. The expertise of a Microbiologist is required in areas viz. medicine, environmental science, food and drink production, dairy industry, agriculture, pharma-ceutical industry, genetic engineering, nanotech-nology, fundamental research etc. An under-graduate degree in microbiology gives an opportunity to work in science laboratories and microbiology based industries.

The department is well equipped with basic and advanced instruments and has facilities such as media room, inoculation area, culture room, bio-instrumentation lab. The department has spacious working laboratories, seminar room etc.



## B.Sc. (Hons.) Microbiology

Semester 1	Semester 2
C-I : Introduction to Microbiology and Microbial Diversity C-II : Bacteriology AECC-I : English/MIL Communication or EVS GE-I : Generic Elective	C-III : Biochemistry C-IV : Virology AECC-II : EVS or English/MIL Communication GE-II : Generic Elective
Semester 3	Semester 4
C-V : Microbial Physiology and Metabolism C-VI : Cell Biology C-VII : Molecular Biology SEC-I : Skill Enhancement Course GE-III : Generic Elective	C-VIII : Microbial Genetics and Genomics C-IX : Environmental Microbiology C-X : Food and Dairy Microbiology SEC-II : Skill Enhancement Course GE-IV : Generic Elective
Semester 5	Semester 6
C-XI : Industrial Microbiology C-XII : Immunology DSE-I : Discipline Specific Elective DSE-II : Discipline Specific Elective	C-XIII : Medical Microbiology C-XIV: Recombinant DNA Technology DSE-III : Discipline Specific Elective DSE-IV : Discipline Specific Elective

C: Core Courses; GE: Generic Elective; AECC: Ability Enhancement Compulsory Course; SEC: Skill Enhancement Courses; DSE: Discipline Specific Elective

### Generic Elective Papers

(Any one per Semester in Semesters I-IV)

#### Semester-I

1. Introduction and Scope of Microbiology

#### Semester-II

2. Bacteriology and Virology

#### Semester-III

3. Microbial Metabolism
4. Microbial Genetics and Molecular Biology

#### Semester-IV

5. Industrial and Food Microbiology
6. Microbes in Environment
7. Medical Microbiology and Immunology
8. Genetic Engineering and Biotechnology

### Skill Enhancement Course

(Any one per Semester in Semesters III-IV)

1. Microbial Quality Control in Food & Pharmaceutical Industries

2. Microbial Diagnosis in Health Clinics
3. Biofertilizers and Biopesticides
4. Food Fermentation Techniques
5. Management of Human Microbial Diseases
6. Microbiological Analysis of Air and Water

### Discipline Specific Elective (for other department)

(Any two per Semester in Semesters V-VI)

#### Semester-V

1. Bioinformatics
2. Plant Pathology
3. Inheritance Biology
4. Biomathematics and Biostatistics

#### Semester-VI

5. Microbial Biotechnology
6. Advances in Microbiology
7. Instrumentation and Biotechniques
8. Biosafety and Intellectual Property Rights
9. Project Work

## Physics

The department offers a three year programme B.Sc. (Hons.) in Physics and has highly active and vibrant faculty committed to impart high quality research standards in pure and applied areas of physics. It trains the students to become competent and motivated physicists. The department conducts invited talks and educational talks through its society “TACHYONS”

The department has state-of-the-art research lab, wherein the students build their foundation on the principles of physics thereby enhancing their scientific temperament. It has equipment like He-Ne laser, polarimeter, spectrometers, electrical bridges, oscilloscopes, resistance meters, function generators, power supplies, optical benches, etc. to aid the learning process and meet the practical needs of the students.



## B.Sc. (Hons.) Physics

Semester 1	Semester 2
C-I : Mathematical Physics-I C-I : Lab (Mathematical Physics-I) C-II : Mechanics C-II : Lab (Mechanics) GE-I AECC-I : English/MIL Communication or EVS	C-III : Electricity & Magnetism C-III : Lab (Electricity & Magnetism) C-IV : Waves and Optics C-IV : Lab (Wave and Optics) GE-II AECC-II : EVS or English/MIL Communication
Semester 3	Semester 4
C-V : Mathematical Physics-II C-V : Lab (Mathematical Physics-II) C-VI : Thermal Physics C-VI : Lab (Thermal Physics) C-VII : Digital Systems and Applications C-VII : Lab (Digital Systems and Applications) GE-III SEC-I	C-VIII : Mathematical Physics-III C-VIII : L:ab (Mathematical Physics-III) C-IX : Elements of Modern Physics C-IX : Lab (Elements of Modern Physics) C-X : Analog Systems and Applications C-X : Lab (Analog Systems and Applications) GE-IV SEC-II
Semester 5	Semester 6
C-XI : Quantum Mechanics C-XI : Lab (Quantum Mechanics) C-XII : Solid State Physics C-XII : Lab (Solid State Physics) DSE-I DSE-II	C-XIII : Electromagnetic Theory C-XIII : Lab (Electromagnetic Theory) C-XIV : Statistical Mechanics C-XIV : Lab (Statistical Mechanics) DSE-III DSE-IV

C: Core Courses; GE: Generic Elective; AECC: Ability Enhancement Compulsory Course; SEC: Skill Enhancement Courses; DSE: Discipline Specific Elective

**Discipline Specific Elective Papers (Credit : 06 each) DSE I-IV**  
(4 papers to be selected : 02 each for Odd Semester and Even Semester as listed below)

**Odd Semester**

1. Experimental Techniques (4) + Lab (4)
2. Advanced Mathematical Physics (4) + Lab (4)
3. Embedded Systems - Introduction to Microcontroller (4) + Lab (4)
4. Nuclear and Particle Physics (5) + Tutorial (1)
5. Physics of Devices and Communication (4) + Lab (4)
6. Astronomy and Astrophysics (5) + Tutorial (1)
7. Atmospheric Physics (4) + Lab (4)
8. Biological Physics (5) + Tutorial (1)

**Even Semester**

9. Advanced Mathematical Physics-II (5) + Tutorial (1)
10. Communication System (4) + Lab (1)
11. Applied Dynamics (4) + Lab (4)
12. Verilog and FPGA based system design (4) + Lab (4)
13. Classical Dynamics (5) + Tutorial (1)
14. Digital Signal Processing (4) + Lab (4)
15. Nano Materials and Applications (4) + Lab (4)
16. Physics of the Earth (5) + Tutorial (1)
17. Medical Physics (4) + Lab (4)
18. Dissertation

**Skill Enhancement Courses (02 to 04 papers) (Credit : 02 each) SEC-I to SEC-IV**

1. Physics Workshop Skills
2. Computational Physics Skills
3. Electrical Circuits and Network Skills
4. Basic Instrumentation Skills
5. Renewable Energy and Energy Harvesting

6. Technical Drawing
7. Radiation Safety
8. Applied Optics
9. Weather Forecasting

**Generic Elective Papers (GE) (Minor - Physics) for other Departments/Disciplines (Credit : 06 each)**

**Odd Semester**

1. Electricity and Magnetism (4) + Lab (4)
2. Mathematical Physics (4) + Lab (4)
3. Digital, Analog and Instrumentation (4) + Lab (4)
4. Applied Dynamics (4) + Lab (4)
5. Medical Physics (4) + Lab (4)
6. Waves and Optics (4) + Lab (4)
7. Quantum Mechanics (4) + Lab (4)\*
8. Communication System (4) + Lab (4)\*
9. Verilog and FPGA based System Design (4) + Lab (4)\*
10. Nano Materials and Applications (4) + Lab (4)\*

**Even Semester**

11. Mechanics (4) + Lab (4)
12. Elements of Modern Physics (4) + Lab (4)
13. Solid State Physics (4) + Lab (4)
14. Embedded System : Introduction to Microcontroller (4) + Lab (4)
15. Biological Physics (5) + Tutorials (1)
16. Thermal Physics (4) + Lab (4)
17. Digital Signal Processing (4) + Lab (4)
18. Nuclear and Particle Physics (5) + Tutorials (1)\*\*
19. Astronomy and Astrophysics (5) + Tutorials (1)\*\*
20. Atmospheric Physics (4) + Lab (4)\*\*
21. Physics of the Earth (5) + Tutorials (1)\*\*

\* Not offered in 1st Semester \*\* Not offered in 2nd Semester

The Department of Psychology has been established in the year 2017. It endeavours to prepare the students for their professional journeys in the dynamic, diverse and ever-growing field of Psychology. The department aims to foster in students the skills and attitudes needed to be competent and socially sensitive psychologists including a self-reflexive attitude, critical thinking, empathy and a respect for individual differences.

The department offers a three year undergraduate programme, B.A. (H) Psychology under CBCS scheme. In this course students learn about the history of the discipline, its theoretical foundations and its numerous branches including Clinical Psychology, Counselling, Child Development, Bio- psychology, Developmental Psychology, Social Psychology, Media Psychology, Research and Training and Human Resource Management.

Given the application based nature of psychology, theoretical papers are accompanied by a variety of vigorous practicum papers for training students in different forms of assessment and research, The department adopts a variety of pedagogical techniques such as field visits, case study analyses and extensive use of audio-visual mediums.

The Department has two well equipped labs at present: Analytical lab and Research lab. The labs are fully equipped with the latest materials and psychological tests that enable students to conduct new and innovative experiments and tests in the field of Psychology. There are 25 laptops in the lab with internet connectivity for students to conduct experiments and to access web for academic purposes.

The department has an academic society named as PSYMENTIA- a window to Psyche, Mind and Conscientia. In its first year of establishment the department organized many talks and interactive sessions on issues such as interpersonal relationships, stress management and suicide prevention. The department organized a 7 day Mental Health Awareness Week in the college to spread awareness about the critical and sensitive aspects of mental health. Workshops on Music Therapy and Art Therapy were organized to introduce students towards alternative therapies of Psychology. The department organized its first annual academic festival- Trezire with the theme "Positively Embracing Negative Emotions". Adding another feather in the cap, the department also published its first issue of annual Psychology Magazine - Sophrosyne.

The department thus provides an enriching environment to students for engagement in academic activities and beyond.



## B.A. (Hons.) Psychology

Semester 1	Semester 2
C-I : Introduction to Psychology (Theory+Practical) C-II: Statistical Methods for Psychological Research-I (Theory+Tutorial) AECC-I : Environmental Science GE-I : Generic Elective	C-III : Biopsychology (Theory+Tutorial) C-IV : Psychology of Individual Differences (Theory+Practical) AECC-II : English Communication GE-II : Generic Elective
Semester 3	Semester 4
C-V : Development of Psychological Thought (Theory+Tutorial) C-VI : Psychological Research (Theory+Practical) C-VII : Social Psychology (Theory+Tutorial) AEEC-I : Ability Enhancement Elective Course GE-III : Generic Elective	C-VIII : Understanding Psychological Disorders (Theory+Practical) C-IX :Statistical Methods for Psychological Research-II (Theory+Tutorial) C-X : Applied Social Psychology (Theory+Practical) AEEC-II : Ability Enhancement Elective Course GE-IV : Generic Elective
Semester 5	Semester 6
C-XI : Understanding & Dealing with Psychological Disorders (Theory+Practical) C-XII : Development of Psychology (Theory+Practical) DSE-I : Discipline Specific Elective DSE-II : Discipline Specific Elective	C-XIII : Organisational Behaviour (Theory+Practical) C-XIV : Counseling Psychology (Theory+Practical) DSE-III : Discipline Specific Elective DSE-IV : Discipline Specific Elective

C : Core Courses; GE : Generic Elective; AECC : Ability Enhancement Compulsory Course; AEEC : Ability Enhancement Elective Courses; DSE: Discipline Specific Elective

### Generic Elective Papers

(Any one per Semester in Semesters I-IV)

1. General Psychology (Theory+Tutorial)
2. Youth, Gender and Identity (Theory+Tutorial)
3. Psychology for Health and Well-being  
(Theory+Tutorial)
4. Psychology at Work (Theory+Tutorial)
5. Psychology and Media (Theory+Tutorial)
6. Inter-group Relations (Theory+Tutorial)
7. Youth Psychology (Theory+Tutorial)

### Ability Enhancement Elective Course (Skill Based)

(Any one per Semester in Semesters III-IV)

1. Emotional Intelligence (Theory+Practical)
2. Stress Management (Theory+Tutorial)
3. Effective Decision Making (Theory+Tutorial)
4. Educational Psychology (Theory+Tutorial)
5. Selection and Training (Theory+Tutorial)
6. Personal Growth and Development (Theory+Tutorial)
7. Psychological Skills in Organisation  
(Theory+Tutorial)

### Discipline Specific Elective (for other department)

(Any two per Semester in Semesters V-VI)

1. Positive Psychology (Theory+Practical)
2. Human Resource Management (Theory+Practical)
3. Health Psychology (Theory+Practical)
4. Community Psychology (Theory+Practical)
5. Cultural and Indigenous Psychology  
(Theory+Practical)
6. Project/Dissertation (VI Semester)
7. Psychological Perspective in Education  
(Theory+Practical)
8. Psychology of Disability (Theory+Practical)
9. Psychology of Peace (Theory+Practical)

The department of Statistics conducts a three year undergraduate course B.Sc. (Hons.) in Statistics. Analysing data has become the need of the day in every field, be it technical or social. Statistics, as a discipline therefore plays a predominant role. It has wide range of applications in every field and offers wide scope of jobs in the corporate world. Statisticians are high on demand and have an immense scope to rise.

The Department has a well furnished lab with statistical software(s) like SPSS to provide hands-on training of the theoretical concepts studied in lectures. The department has a society by the name of “Parastika” lectures by eminent professors are conducted under the banner of the society

## B.Sc. (Hons.) Statistics

SEMESTER 1	SEMESTER 2
C-I : Descriptive Statistics C-II : Calculus AECC-I : English/MIL Communication or EVS GE-I : Generic Elective	C-III : Probability and Probability Distributions C-IV : Algebra AECC-II : English/MIL Communication or EVS GE-II : Generic Elective
SEMESTER 3	SEMESTER 4
C-V: Sampling Distributions C-VI: Survey Sampling and Indian Official Statistics C-VII : Mathematical Analysis SEC-I : Statistical Data Analysis using Software Packages / Using R Software Environment GE-III : Generic Elective	C-VIII : Statistical Inference C-IX : Linear Models C-X : Statistical Quality Control SEC-II : Statistical Techniques for Research Methods / Database Management Systems GE-IV : Generic Elective
SEMESTER 5	SEMESTER 6
C-XI: Stochastic Processes C-XII: Statistical Computing using C/C++ Programming DSE-I : Discipline Specific Elective DSE-II : Discipline Specific Elective	C-XIII: Design of Experiments C-XIV: Multivariate Analysis and Non-parametric Methods DSE-III : Discipline Specific Elective DSE-IV : Discipline Specific Elective

C: Core Courses; GE: Generic Elective;AECC:Ability Enhancement Compulsory Course; SEC: Skill Enhancement Courses; DSE: Discipline Specific Elective

### Generic Elective Papers

1. Statistical Methods
2. Introductory Probability
3. Basics of Statistical Inference
4. Applied Statistics

### DSE-II

1. Operations Research
2. Econometrics

### DSE-III

1. Actuarial Statistics
2. Survival Analysis

### DSE-IV

1. Financial Statistics
2. Project Work

### Discipline Specific Elective

(Credit :06each)

- DSE-I**
1. Time Series Analysis
  2. Demography and Vital Statistics

## Physical Education & Sports

In order for the country to progress students health will have to be nurtured to make them a power house. With this philosophy in mind SRCASW along with academics puts considerable focus on sports activities and encourages students to participate and excel in a variety of games and sports that are organized regularly in our college and outside. The college caters to Physical education and sports in the following ways:

1. **Sporting Facilities:** The College provides facilities for Athletics, Aerobics, Badminton, Cross country, Gymnastics, Kho-Kho, Volleyball, Table Tennis, and Yoga. It has a well-equipped Gym in its campus. These facilities are open for staff and students. The Department also organizes various fitness programs and camps from time to time.
2. **Participation in Tournaments:** Our students regularly participate in the DU Inter College tournaments, and also in tournaments at District level, State level, National level and Inter University level and make the college proud through their sporting achievements. College provides all the required back-up support.
3. **SPARDHAA, the Sports Fest,** invites teams from different colleges/institutions to participate and exhibit their sports talent, leadership and comradery. In SPARDHAA-2018, athletes from 42 different colleges of University of Delhi took part and showcased their talents through healthy competitions in nine sports events.
4. **Intra-Murals:** The College organizes Intra-murals, where college students, teaching and staff participate in various sporting events.
5. **Physical Education as Subject of Teaching:** Department of Physical Education & Sports Sciences offers Generic Elective Paper in Physical Education.

Semester I- Introduction to Physical Education in Contemporary Context

Semester II- Fitness, Wellness & Nutrition

Semester III- Health Education, Anatomy & Physiology

Semester IV- Posture, Sports Medicine & First Aid.



The college boasts of a hi tech auditorium with a seating capacity of about 600, an aesthetically designed amphitheater, several seminar halls, capacious classrooms, well equipped gym, beautiful gardens and well maintained lawns. It also has on campus hostel which accommodates about 120 students. The college hostel gives students a neat, clean and comfortable place to live in.

### **The Library**

The College library has approximately 19100 books, 20 printed journals and magazines and many scientific encyclopedia and periodicals covering all aspect of fundamental science. The library subscribes to a large number of Electronics Resources through UGC-Infonet, DULIS Electronic Journal and NLIST of Inlibnet. It includes 11 Online Databases on Reference & Citation Sources, 7 online Databases on Bibliographic Sources, 2 Online Databases on Citation Analysis Resources, 5 online Databases on Financial and Statistical Sources, Single databases on Doctoral Theses and 77 online Databases on Full Text Sources. Around 49270+ e-journals and 97000+ e-books are available in the library with three wi-fi computer laboratories consisting of 80 computers i.e. e-Library-1, e-Library-2 and e-Library-3.

The library has digital materials on its institutional repositories like New Product Development done by the 3rd year students of Food Technology. Other Important project reports, question papers, syllabus have been also digitized by the library.

The college library is RFID (Radio Frequency Identification System) enabled, which is being used for housekeeping operation. The system moves beyond security to become tracking system that combine security with more efficient tracking of materials throughout the library, including easier and faster charge and discharge, inventory, material handling and automated book drop kiosk being used for easier return of books. The system includes self-circulation desk, staff work station, security gate, book drop box, RFID reader, RFID sticker for Book, SMS/e-mail services for each book transaction.



## @SRCASW

### Inter-Institutional Agreement 2017-19

The college has become part of Erasmus project No-2017-1-CZ01-K107-034877 (Key Activity1) along with the Silesian University, Faculty of Philosophy and Science in Opava ,Czech Republic. The partner institute has agreed to cooperate for the exchange of students and/or staff in the context of the Erasmus+ program for 2 academic years, that is 2017/2018 and 2018/2019 The college is under process of initiate many more international exchange programs along with other renowned universities in Europe.

### Technology Business Incubator

Shaheed Rajguru College of Applied Sciences for Women (University of Delhi) is recently being awarded the approval to have Technology Business Incubator (TBI) supported by the Micro, Small and Medium Enterprises (MSME) -DI, New Delhi. The mission of incubator is to stimulate the establishment and growth of technology based startups. By fulfilling this mission, the TBI would contribute to job creation and generate revenue to run the incubator without support.

### SPIC Macay

SPIC MACAY is a non-political nationwide voluntary movement that organizes programs of classical music and dance, folk arts, crafts, yoga, classic cinema screenings, heritage walks, etc. The College, in association with 'Spic Macay', organized a Qawwali Program by Qutbi Brothers in the College Auditorium as part of Spic Macay's series of cultural events, Virasat 2018

### NIRF Ranking

The National Institutional Ranking Framework (NIRF) was approved by the MHRD on 29th September 2015. This framework outlines a methodology to rank institutions across the country. The parameters broadly cover "Teaching, Learning and Resources," "Research and Professional Practices," "Graduation Outcomes," "Outreach and Inclusivity" and "Perception". Institutions were given a discipline specific rank besides an overall ranking. India Rankings-2018 based on this framework was released on 3rd April, 2018. Amongst the 1087 institutes, our college was ranked as 53rd in the Colleges category. It holds the overall score of 49.85 with a high score of 67.43 in the parameter Outreach and Inclusivity. The college is a grade 'A' institute accredited by NAAC in 2015.



## [i -Hub] Entrepreneurship Development Cell

EDP-cell wishes to inculcate and enrich the entrepreneurial environment in and around college by creating an easily accessible and exhaustive set of resources for the young entrepreneurs, which includes the students, the budding professionals and mentors. EDP-Cell effectively meets these objectives through networking student enterprises from campus to companies, seeding funds and investors to transform the newly proposed ideas into successful start-ups. Workshops and inter college competitions are organized in association with national professionals and eminent personalities to create awareness and motivate students about entrepreneurship. The college is recently awarded the approval to have Technology Business Incubator (TBI) supported by the Micro, Small and Medium Enterprises (MSME) -DI, New Delhi.

## CISCO Academy

The college in association with CISCO systems runs CISCO Local Academy. The Academy offers training for the CCENT (Cisco Certified Entry Network Technician) and CCNA (Cisco Certified Network Associate) certification. Apart from CCNA, our academy also offers various free online exploratory courses on Introduction to Cyber security, Introduction to IoT, Cyber security Essentials, NDG Linux Unhatched, Mobility Fundamentals and Entrepreneurship, Network Security essentials and Linux. This year our academy won the “Best Performing Academy Exploratory Courses -2017” award for excellence in conducting IoT course.

## Robotics Club

The Robotics Club, Abhimanyu Bot was established under initiative of E-Yantra, IIT Mumbai, a project sponsored by MHRD. The students of Robotics club are actively involved in developing projects based on real life applications. Robotics club is also involved in conducting workshops and seminars.

## Foreign Language Course

The college is conducting certification courses in French and German languages. These courses have multiple levels and for each level a batch of maximum 25 students is taken on first come first serve bases. Each language course has been divided into six modules. For in depth understanding of the language all aspects including listening, speaking, and writing are covered during the course. After successfully completing each module, students receive a certificate of completion.



## @SRCASW

**AARAMBH** is an initiative towards mental health to create awareness and provide knowledge about psychological conflicts and mental health issues. It has successfully conducted events like “Failure is the best thing that can happen to you” an Interactive session in association with ePsychnic, “Wall of Wellness”, etc.

**AHAARYA, the dance society**, has performed exceptionally well in the arena of dance at various institutes and won laurels. It focuses on bringing up new dance talent, giving them the required touches and creative freedom.

**ELVIRA, the fine arts society**, has been responsible for the decoration of college for various events throughout the year. It hosts VISTOSO, the annual inter college fine arts fest, competitive events like Rangavali (Rangoli making) and Cardina (Card making) etc.

**GLAMFIRE, the fashion society**, comprises of talented prodigies working as designers, stylists, models and props artists. It proudly hosted fashion events like “VOGUE”, “Mr. and Ms. KARVAAN” during the annual cultural festival of the college ‘KARVAAN’.

**INKLINGs, the literary society**, is the den of passionate writers and eloquent orators. The society witnessed various literary events ranging from stimulating open house debates to spirited slam poetry competitions.

**MUKHAUTA, the dramatics society**, aims to spread awareness on the social, political and cultural issues through street plays. It hosts the street play event “lalkaar” during the annual cultural festival of the college ‘KARVAAN’.

**PHILYRA, the music society**, includes many versatile singers ranging from western to Indian classical vocalists. Aarohana- The Indian Choir is the extension of the music society and every year participates in various Indian Choir competitions. The society has participated in many fests and has achieved many positions in the competition with their performance being well appreciated by everyone within and outside the college.

**SHUFFLESHOTS, the photography club**, covers all the events held in college premises enthusiastically. The members participated in various inter-college competitions and conducted events like “Freeze the Second”, “Lensarc” and “Shoot art”.



The college is a hub of activities spread over the entire academic year 2017-18. Some of these activities were:

**Freshers' 2017** : The Freshers' Party was organized on August 18, 2017 to welcome the new comers for the session 2017-2018.

**Independence Day** : Independence Day celebrations were marked by dance performances, music recitals and inspirational speeches.

**Motivational Talk** : A talk by Mr. Hitesh Ramchandani from "Better Than Normal" was organized on August 24, 2017 to enlighten and motivate the students.

**Rajguru Day** : The Rajguru Fraternity celebrated Rajguru Day on August 28, 2017. The event was marked by enlightening speeches.

**Student's Council Elections** : Student Council Elections were held on September 8, 2017 in compliance with Lyngdoh Committee recommendations.

**14th National Youth Parliament Competition**: SRCASW performed for the Group Level Competition of the 14th National Youth Parliament Competition for Colleges/Universities organized by Ministry of Parliamentary Affairs, Govt. of India on September 15, 2017. The students enacted a one hour parliament session raising and debating various issues.

**Sanitary Napkin Vending Machine Installation** :The Women Health and Hygiene Awareness program was held on September 26, 2017 to educate the students about various health and hygiene issues and to inaugurate the sanitary napkin vending machines which were installed by CSR Foundation.

**Diwali Mela** :The Student Council hosted the 4th Diwali Mela on October 11, 2017 in full festive splendor. The event witnessed a gathering of more than 2000 people.

**Vigilance Week Seminar** : The college observed the vigilance week from 30 October, 2017 to 4 November, 2017. The theme for the vigilance week was "My Vision — Corruption Free India".

**Annual Cultural Fest — Karvaan 2018**:The Student's Council of Shaheed Rajguru College of Applied Sciences for Women organized "Karvaan 2018 — A Wanderlust". It had a flavor of International Competitions and auditions for Daily soap serial and Miss Elite Asia 2018. The first day was witness to different cultural society events that kept the audience engaged by thrill and melody filling the air. The stage was on fire for the second day as it was filled with power packed performances of Artists.



## @SRCASW

### National Service Scheme

NSS activities are actively carried out round the year by the volunteers of our college. Teaching underprivileged kids from nearby slum areas, visits to old Age Home and orphanages, Collection Drives (Winter Clothes Collection), Road Safety activities, women uplift related activities, etc are some of NSS initiatives. The NSS also organizes various camps like Eye check-up camp, Blood Donation Camp, Health Issues related Camps, Self Defence Training Camp etc.

Under “Swachh Bharat Abhiyaan” our student volunteers are undergoing ‘Swachh Bharat Summer Internship – 100 Hours of Swachhata’ organized by the Ministry of Human Resource Development in association with the Ministry of Drinking Water and Sanitation.

### Women Development Cell

Women Development Cell of the College aims to sensitize and apprise the students on various socio-legal issues related to women at home and workplace. It organizes self-defence workshop to promote self-empowerment, talks related to women empowerment, voice against sexual harassment and promote healthcare of women.

### Eco Club

The Eco Club of the college symbolizes love and responsibility towards nature. The Members of the college community, including students, faculty and staff come together to voice their environmental concerns through the society. Eco Day is celebrated to further highlight the significance of clean environment.

### Equal Opportunity Cell

The Equal Opportunity Cell (EOC) of the college has been established with a view to empower the ST, SC, OBC, students from north east and students with disabilities and to give them equal opportunities in higher education. The cell disseminates information regarding the various welfare schemes related to such students and also provides facilities and assistance through counseling and remedial classes.

All efforts are made to make the campus disabled friendly. The college has ramps, lifts, wheel chairs and disabled friendly toilets. In addition, the library of the College has computers with assistive software for visually impaired students.



**Lectures, Tutorials and Practical**

It is compulsory for every student to attend lectures and tutorials/practical in each of the subject taken up for study. The students are divided into sections or groups for lectures / practicals. It is expected from every student to find out her section/ group/ days/ periods well in time so as not to miss any of the classes. In case a student does not find her name / roll number in any of the sections / groups for any lecture or practical class, she should bring this fact to the notice of the concerned teacher immediately.

**Discipline and Attendance**

Every student of the college must abide by the rules and regulations of the college and University. According to University regulation, student of undergraduate courses is required to attend at least 67% of the total lectures and tutorials / practicals separately in each subject. Students falling short of attendance will not be allowed to appear for the University Annual Examinations. The students are required to maintain discipline and silence in and around classrooms and laboratories. The students are required to switch off their mobile phones in classrooms and laboratories.

The college will not be responsible for any event and / or get together held outside or in the college premises without the prior approval of the Principal.

**Medical Leave**

All applications for leave of absence due to sickness must be supported by a medical certificate issued by an authorized medical practitioner or hospital and should reach the Principal office not later than a week of the student joining the college after her illness. This rule will be enforced strictly in giving benefit of attendance on medical grounds.

**Identity Card**

RF Identification cards are issued to all the students soon after the admissions. It is compulsory for the students to carry their I-cards to the college everyday and they should be able to present it on demand by the college authorities. In case of loss/damage of Identity card, a duplicate card can be obtained from the college office by paying fine and fee.

**Library**

A student can issue four books each for a week and a text book for a day. If the books are not returned within stipulated time, fine as per library rules has to be deposited. The periodicals of the library are only for reference. Student can get photocopy of the same from paid facility.

**Notice Board**

Students are advised to read the notice board regularly and comply with the orders and instructions relevant from time to time. Students are also advised to visit the College and University website from time to time to keep themselves updated for important inputs.

**Medals and Prizes**

Medals for the best academic performance in each course are awarded at the end of every academic session. Apart from academic prizes, medals and prizes for various activities as conducted in the college throughout the year are also awarded.

**Seminars, Workshops and Various Functions, Annual Technical Festival**

The college organizes seminars/ workshops in order to have a direct interaction with various industries / research institutes. Eminent speakers are invited to deliver talks in their respective fields of specialization. Lectures by

## Regulations

skilled professionals are also conducted in the college from time to time for the benefit of the students. It is compulsory for every student to attend these seminars/workshops/lectures failing which strict disciplinary action would be taken against the erring students.

### Lockers

Every student is issued a locker in the beginning of the academic session. Students are not allowed to carry their bags inside laboratories, auditorium and library and they must not leave their bags and other belongings unattended. Hence for safety purpose, the locker should to be kept locked.

### Damage to College Property

Students shall take proper care of the college property and they must not spoil or cause any damage to or tamper the college property, furniture, fittings etc. Strict disciplinary action would be taken against the students found to be involved in damaging college property.

### Scholarships

All eligible SC/ST, OBC, PwD students etc. should submit their scholarships form for every academic year by February for processing scholarship to SC/ST, OBC, PwD etc. each year.

### Fee Concession

The college offers the fee concession for the needful, economically weak and bright students. Students willing to avail this facility can apply in the prescribed form (available at the college website) after admission.

**A student will be liable to disciplinary action for violation of any of the above rules. Disciplinary action may involve warning, fines, and suspension from using the college library, suspension from the class or even expulsion from the college.**

**“ENTIRE COLLEGE IS UNDER CCTV SURVEILLANCE”  
“RAGGING IN THE COLLEGE / HOSTEL IS A PUNISHABLE OFFENCE”  
“COLLEGE / HOSTEL IS A SMOKE FREE ZONE”**



**19.1 ORDINANCE XV-B**

Maintenance of discipline among Students of the University

1. All powers relating to discipline and disciplinary action are vested in the Vice - Chancellor.
2. The Vice-Chancellor may delegate all or such powers as he / she deems proper to the Proctor and to such other persons as he/she may specify in this behalf.
3. Without prejudice to the generality of power to enforce discipline under the Ordinance the following shall amount to acts of gross indiscipline:
  - a. Physical assault, or threat to use physical force, against any member of the teaching and non-teaching staff of any Institution / Department and against any student within the University of Delhi
  - b. Carrying of, use of or threat to use of any weapons
  - c. Any violation of the provisions of the Civil Rights Protection Act, 1976
  - d. Violation of the status, dignity and honour of students belonging to the scheduled castes and tribes
  - e. Any practice-whether verbal or otherwise-derogatory of women
  - f. Any attempt at bribing or corruption in any manner
  - g. Willful destruction of institutional property
  - h. Creating ill-will or intolerance on religious or communal grounds
  - i. Causing disruption in any manner of the academic functioning of the University system;
  - j. Prohibition of Ragging as per Ordinance XV-C.
4. Without prejudice to the generality of his / her powers relating to the maintenance of discipline and taking such action in the interest of maintaining discipline as may seem to him/her appropriate, the Vice-Chancellor, may in the exercise of his / her powers aforesaid order or direct that any student or students -
  - a. be expelled; or
  - b. be, for a stated period rusticated; or
  - c. be not for a stated period, admitted to a programme or programmes of study in a College, Department or Institution of the University; or
  - d. be fined with a sum of rupees that may be specified; or
  - e. be debarred from taking a University or College or Departmental Examination or Examinations for one or more years; or that the result of the student or students concerned in the Examination or Examinations in which he /she or they have appeared be cancelled.
5. Institutions, Halls and teaching in the concerned Departments. They may exercise their authority through, or delegate authority to such of the teachers in their Colleges, Institutions or Departments as they may specify for these purposes.
6. Without prejudice to the powers of the Vice-Chancellor and the Proctor as aforesaid, detailed rules of discipline and proper conduct shall be framed. These rules may be supplemented, where necessary, by the Principals of Colleges, Heads of Halls, Deans of Faculties and Heads of Teaching Departments in this University. Each student shall be expected to provide himself / herself with a copy of these rules. At the time of admission, every student shall be required to sign a declaration that on admission he /she submits himself / herself to the disciplinary jurisdiction of the Vice-Chancellor and several authorities of the University who may be vested with the authority to exercise discipline under the Acts, the Statutes, the Ordinances and the rules that have been framed therein by the University.

**19.2 ORDINANCE XV-C**

Prohibition and Punishment for Ragging

1. Ragging in any form is strictly prohibited, within the premises of College / Department or Institution and any part of Delhi University system as well as on public transport.
2. Any individual or collective act or practice of ragging constitutes gross indiscipline and shall be dealt with under this Ordinance.
3. Ragging for the purposes of this Ordinance, ordinarily means any act, conduct or practice by which dominant power or status of senior students is brought to bear on students freshly enrolled or students who are in any way considered junior or inferior by other students; and includes individual or collective acts or practices which
  - a. Involve physical assault or threat to use of physical force.

- b. Violate the status, dignity and honour of women students.
- c. Violate the status, dignity and honour of students belonging to the scheduled caste and tribe.
- d. Expose students to ridicule and contempt and affect their self-esteem.
- e. Entail verbal abuse and aggression, indecent gestures and obscene behavior.
4. The Principal of a College, the Head of the Department or an Institution, the authorities of College, or University Hostel or Halls of Residence shall take immediate action on any information of the occurrence of ragging.
5. Notwithstanding anything in Clause (4) above, the Proctor may also suo motu enquire into any incident of ragging and make a report to the Vice-Chancellor of the identity of those who have engaged in ragging and the nature of the incident.
6. The Proctor may also submit an initial report establishing the identity of the perpetrators of ragging and the nature of the ragging incident.
7. If the Principal of a College or Head of the Department or Institution or the Proctor is satisfied that for some reason, to be recorded in writing, it is not reasonably practical to hold such an enquiry, he/ she may so advise the Vice-Chancellor accordingly.
8. When the Vice-Chancellor is satisfied that it is not expedient to hold such an enquiry, his / her decision shall be final.
9. On the receipt of a report under Clause (5) or (6) or a determination by the relevant authority under clause (7) disclosing the occurrence of ragging incidents described in Clause 3(a), (b) and (c) the Vice-Chancellor shall direct or order rustication of a student or students for a specific number of years.
10. The Vice-chancellor may in other cases of ragging order or direct that any student or students be expelled or be not for a stated period, admitted to a programme of study in a college, departmental examination for one or more years or that the results of the student or students concerned in the examination or examinations in which they appeared be cancelled.
11. In case any students who have obtained degrees or diplomas of the University of Delhi are found guilty; under this Ordinance, appropriate action will be taken under Statute 15 for withdrawal of degrees or diploma conferred by the University.
12. For the purpose of this Ordinance, abetment to ragging whether by way of any act, practice or incitement of ragging will also amount to ragging.
13. All Institutions within the Delhi University system shall be obligated to carry out instructions / directions issued under this Ordinance, and to give aid assistance to the Vice-Chancellor to achieve the effective implementation of the Ordinance.

Note: Order of the Vice-Chancellor in pursuance of Ordinance XV-C:

Where incident(s) of ragging are reported to the Vice-Chancellor by any authority under this Ordinance, the students(s) involved in ragging, shall be expelled for a specified term, designated in the order. Non-students involved in reports of ragging will be proceeded with under the criminal law of India; they will also be rendered ineligible for a period of five years from seeking enrolment in any of the institutions of the University of Delhi. Students against whom necessary action is taken under this note, will be given post decisional hearing, with strict adherence to the rules of natural justice.

### 19.3 ORDINANCE XV-D

The Sexual Harassment of Women at Workplace (Prevention, Prohibition and Redressal) Act, 2013 (MINISTRY OF LAW AND JUSTICE)

An Act to provide protection against sexual harassment of women at work place and for the prevention and redressal of complaints of sexual harassment and for matters connected there with incidental thereto.

WHEREAS sexual harassment results in violation of the fundamental rights of a woman to equality under articles 14 and 15 of the Constitution of India and her right to life and to live with dignity under article 21 of the Constitution and right to practice any profession or to carry on any occupation, trade or business which includes a right to a safe environment free from sexual harassment;

AND WHEREAS the protection against sexual harassment and the right to work with dignity are universally recognized human rights by international conventions and instruments such as Convention on the Elimination of all forms of discrimination against Women, which has been ratified on the 25th June, 1993 by the Government of India.

AND WHEREAS it is expedient to make provisions for giving effect to the said Convention for protection of women against sexual harassment at workplace.

For details, please see the website <http://indiacode.nic.in/acts-in-pdf/142013.pdf>.

<b>Admission Committee</b>	
Ms. Venika Gupta (Convenor)	9953469945
Ms. Preeti Singhal (Convenor)	9868516331
Dr. Indu Arora (Foreign Student Advisor)	9891027157
Dr. Sadhna Jain, Associate Professor, Department of Biochemistry	9810103664
Dr. Radhika Bakshi, Assistant Professor, Department of Biomedical Science	9810599435
Dr. Jasjeet Kaur, Associate Professor, Department of Chemistry	8130959522
Dr. Suruchi Chawla, Assistant Professor, Department of Computer Science	9810342692
Dr. Deepa Joshi, Associate Professor, Department of Food Technology	9810950353
Dr. Sneha Kabra, Assistant Professor, Department of Instrumentation	9868847325
Dr. Punita Saxena, Associate Professor, Department of Mathematics	9810221483
Dr. Rekha Mehrotra, Associate Professor, Department of Biology	9811243283
Dr. Alka Vohra Kuanr, Associate Professor, Department of Physics	9717453770
Dr. Daya Bhardwaj, Co-ordinator, Department of Pscycology	9811239028
<b>Admission Grievance Committee</b>	
Dr. Ranjana Singh (Convenor)	9818258145
Dr. Mohd Saquib Ansari	9868877867
Dr. Daya Bhardwaj	9811239028
Dr. Indu Arora	9891027157
<b>Sport Admission Committee</b>	
Dr. Ranjana Singh (Convenor)	9818258145
Dr. Bimla Pawar (Co-Convenor)	9810224259
<b>ECA Admission Committee</b>	
Dr. Varsha Mehra (Convenor)	9971703464
Dr. Jasjeet Kaur	8130959522
<b>Special Categories Admission Enabling Committee</b>	
Dr. Mohd Saquib Ansari (Convenor)	9868877867
Dr. Rekha Mehrotra	9811243283
Dr. Punita Saxena	9810221483
Dr. Ranjana Singh	9818258145
<b>Help Desk Committee</b>	
Ms. Deepali Bajaj (Convenor)	989929 1274
Dr. Varsha Mehra	9971703464
Dr. Shruti Banswal	9811138293
<b>Proctorial &amp; Anti-Ragging Committee</b>	
Ms. Preeti Singhal (Convenor)	9868516331
Dr. Punita Saxena	9810221483
<b>Internal Complaint Committee</b>	
Ms. Venika Gupta (Convenor)	9953469945
Ms. Preeti Singhal (Co-convenor)	9868516331
<b>Fee Concession Committee</b>	
Dr. Daya Bhardwaj (Convenor)	9811239028
Dr. Punita Saxena	9810221483
Dr. Jasjeet Kaur	8130959522

## Number of Seats & Annual Fees

Name of Programme	Category-wise distribution of Seats					Annual fee (category-wise)			
	Direct					(in INR)#			
	Total Seat	UR	SC	ST	OBC	UR/ OBC/ Minority	SC	ST	PwD
B.Sc. (Hons.) Biochemistry	32	16	5	2	9	10620	10440	10440	1490
B.Sc. (Hons.) Biomedical Science	32	16	5	2	9	20620	20440	20440	1490
B.Sc. (Hons.) Chemistry	32	16	5	2	9	10620	10440	10440	1490
B.Sc. (Hons.) Computer Science	46	23	7	4	12	25620	25440	25440	1490
B.Sc. (Hons.) Electronics	32	16	5	2	9	10620	10440	10440	1490
B.Sc. (Hons.) Food Technology	32	16	5	2	9	10620	10440	10440	1490
B.Sc. (Hons.) Instrumentation	32	16	5	2	9	10620	10440	10440	1490
B.Sc. (Hons.) Mathematics	46	23	7	4	12	10620	10440	10440	1490
B.Sc. (Hons.) Microbiology	32	16	5	2	9	10620	10440	10440	1490
B.Sc. (Hons.) Physics	46	23	7	4	12	10620	10440	10440	1490
B.Sc. (Hons.) Statistics	46	23	7	4	12	10620	10440	10440	1490
B.A. (Hons.) Psychology	46	23	7	4	12	10620	10440	10440	1490
B.B.A. [FIA] (Bachelor in Business Administration)	46	23	7	4	12	21620	21610	21610	1490
B.M.S. (Bachelor in Management Studies)	46	23	7	4	12	10620	10440	10440	1490



(A)	Maintenance Account	₹	₹	(B)	Student's Society Account	₹
1	Tuition Fees (July, 18 - June, 19)		180.00	1	Games & Sports Fee	1000.00
2	Magazine Fee		500.00	2	Function & Cultural Activities Fee	1500.00
3	Library & Reading Room Fee		1000.00	3	Student's Aid Fund	100.00
4	Identity Card Fee		100.00	4	Security Deposit (Refundable)	500.00
5	Garden Fee		100.00	5	Medical Fee	150.00
6	Water & Electricity Fee		500.00	6	Development Fee	1500.00
7	Laboratory Fee		1000.00	7	Picnic & Excursion Fee	100.00
8	University Enrolment Fee		200.00	8	Seminar/Exhibition Fee	300.00
9	University Athletic Association Fee		50.00	9	In-house Examination Fee	500.00
10	University Culture Activities Fees		5.00	10	Prevention of Sexual Harassment Fee	10.00
11	University Development Fee		600.00	11	World University Service Fee	5.00
12	Computer Laboratory Fee		500.00	12	Others	0.00
13	N.S.S. Fund		20.00			
14	Computer Science B.Sc. (H)	15000.00				
15	Biomedical Science B.Sc. (H)	10000.00				
16	Business Administration (BBA[FIA])	11000.00				
17	University Examination Fee*					
18	Internet Facility		200.00			
19	Placement Brochure Fee (For Final Year Students only)	200.00	0.00			
	Fine		0.00			
	<b>Total (A)</b>		<b>4955.00</b>		<b>Total (B)</b>	<b>5665.00</b>
	<b>Grand Total (A+B)</b>					<b>10620.00</b>

### FEE REFUND POLICY

#### RULES FOR REFUND OF FEE ON ACCOUNT OF WITHDRAWAL/CANCELLATION OF ADMISSION

(As per notifications Acad.-I/2015-16/Refund of fee/541 dated 26th June, 2015 & Acad.-I/2015-16/Refund of fee/586 dated 08.07.2015)

Sr. No.	Reasons for seeking refund	Quantum of fee to be refunded
1	When a student applies for withdrawal of admission upto 31st July.	Full fee after deduction of Rs. 500/- and full examination fee.
2	When a student applies for withdrawal of admission on or after 1st August till three working days before the last date of admission (including the last day of admission).	Full fee after deduction of Rs. 1000/- and full examination fee.
3	When admission is made inadvertently due to error/omission/commission on the part of the University/College	Full fee and full examination fee.
4	When cancellation of admission is due to concealment/falsification of facts, submission of false/fake certificates(s), providing misleading information by the student or for any error/mistake on the part of the student.	No fee will be refunded.
5	In case of Migration of a student in III semester from one college to another college (If permissible under the University rules), up to 31st August of the year of migration.	Full fee after deduction of 20% of the total fee and full examination fee.
6	When a student of Self Financing course applies for withdrawal of admission on or before the last date of admission.	Full fee after deduction of Rs. 1000/- and full examination fee.
7	If a student provisionally admitted to a course on declaration of the result of his qualifying examination/compartamental examination becomes ineligible for admission and his/her admission is cancelled.	Full fee after deduction of Rs. 1000/- provided that he/she applies for refund in the same Financial Year.
8	In case a student after his/her admission expires within one month of the last date of admission.	Full fee including examination fee will be refunded to his/her parents.
9	When a student has been allowed to change the course of study in the same college or within the departments of the University.	After adjustment of fees already paid the student will be required to pay the remaining amount due as prescribed for the new course. In case the student paid in the previous course more than the amount due for the second course, the excess amount will be refunded/adjusted towards further month(s) fees.









# Prospectus 2018 - 19



**Shaheed Rajguru College of Applied Sciences for Women**

Accredited with 'A' Grade by NAAC

**University of Delhi**

Vasundhara Enclave, New Delhi-110096

[www.rajgurucollege.com](http://www.rajgurucollege.com)



# Prospectus 2018 - 19



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**Prospectus 2018-19**



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New Delhi, Delhi 110096

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