



Shaheed Rajguru College of Applied Sciences for Women

(NAAC 'A' Grade Accredited)

University of Delhi



PROSPECTUS 2019-20



Shivaram Hari Rajguru
(24 August 1908 — 23 March 1931)

Shivaram Hari Rajguru was born in an average middle-class Hindu Brahmin family at Khed in Poona district in 1906. 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 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, 2019, 10:30 am
Venue : College Auditorium

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Principal's Message



I would like to welcome you to Shaheed Rajguru College of Applied Sciences for Women and to our Admission e-Prospectus 2019 for a look at the diversity of opportunity and range of experiences our students received. Shaheed Rajguru College of Applied Sciences for women has been transformed over the past decade. As we approach mark of over 2,000 students and 14 disciplines, we can be truly proud of our recent success.

The impact of our teaching and research is now recognised around the whole nation, in particular in our consistent rise in national rankings. Enriched by a talented and diverse team of staff, we are committed to delivering excellence and creating equality of opportunity, through a spirit of partnership. Working together with determination, confidence and ambition, we can look forward to the many exciting opportunities that lie ahead of us in the coming academic session.

Shaheed Rajguru College of Applied Sciences for Women is a grade 'A' Institute accredited by NAAC and NIRF ranking 31 that offers not only a platform for achieving academic excellence but also a nurturing environment for holistic growth and development. We have a great history in providing high-quality education catering for individual needs and preparing young people for the world of opportunities post secondary education

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 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 amphitheater and a conference room. The 9.5 acres lush green campus adds a calming ambience to the college.

Our success rate for students progressing to Higher and Further Education is very high. Over the years, the 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. College is committed to inculcate a sense of social responsibility amongst student by providing them ample opportunity to work for the betterment of underprivileged class of society.

The e-prospectus contains all the necessary information pertaining to the 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

Admission Schedule

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

<i>Cut-off</i>	<i>Activity</i>	<i>Date</i>
	Online Registration Starts	30th May 2019 (Thursday)
First Cut-off	Notification of First Cut-off Marks List by the Colleges	28th June 2019 (Friday)
	Document Verification and Approval of Admission	28th June 2019 (Friday) to 1st July 2019 (Monday) (except Sunday)
Second Cut-off	Notification of Second Cut-off Marks List by the Colleges	4th July 2019 (Friday)
	Document Verification and Approval of Admission	4th July 2019 (Friday) to 6th July 2019 (Saturday)
Third Cut-off	Notification of Third Cut-off Marks List by the Colleges	9th July 2019 (Tuesday)
	Document Verification and Approval of Admission	9th July 2019 (Tuesday) to 11th July 2019 (Thursday)
Fourth Cut-off	Notification of Fourth Cut-off Marks List by the Colleges	15th July 2019 (Monday)
	Document Verification and Approval of Admission	15th July 2019 (Monday) to 17th July 2019 (Wednesday)
Fifth Cut-off	Notification of Fifth Cut-off Marks List by the Colleges	20th July 2019 (Saturday)
	Document Verification and Approval of Admission	20th July 2019 (Saturday) to 23rd July 2019 (Tuesday) (except Sunday)

Note :

1. For document verification and approval of admission following timings will be observed : 9.00 a.m. to 1.00 p.m.
2. On approval of the admission by the Principal of the College, fee payment will be activated on the applicant's dashboard in the Undergraduate Admission Portal. The applicant has to log on to the Portal to make online payment of the fee. This may be done till 15:00 hrs. of the next day of the approval of Admission in the Portal.
3. The Original Mandatory Documents produced at the time of admission are to be verified online. The documents which cannot be verified online are to be submitted in original within one week of the last day of UG Admissions for forensic verification.

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

College Vision & Mission

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 2019-20

Semester I / III / V	
Classes Begin	20th July 2019 (Saturday)
Mid-Semester Break	7th October 2019 (Monday)
Classes Begin after Mid-Semester Break	14th October 2019 (Monday)
Dispersal of Classes, Preparation Leave and Practical Examination Begin	16th November 2019 (Saturday)
Theory Examination Begin	30 November 2019 (Saturday)
Winter Break	17 December 2019 (Tuesday)
Semester II / IV / VI	
Classes Begin	1st January 2020 (Wednesday)
Mid-Semester Break	9th March 2020 (Monday)
Classes Begin after Mid-Semester Break	16th March 2020 (Monday)
Dispersal of Classes, Preparation Leave and Practical Examination Begin	28th April 2020 (Tuesday)
Theory Examination Begin	11th May 2020 (Monday)
Winter Break	26th May 2020 (Tuesday)

Admission Details

Academic Qualifications

- (a) 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.
- (b) Compartment cases of current session will not be considered for admission.

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 :

1. Printout of Admission Form of University of Delhi submitted online mentioning the College name and Course opted.
2. Admission Form of the College duly filled.
3. Class 10th Board Examination Certificate as evidence of date of birth.
4. Class 10th Marks-sheet.
5. Class 12th Marks-sheet.
6. Class 12th Provisional/Original Certificate.
7. SC/ST/PwD/CW/KM/EWS Certificate (in the name of the candidate) issued by the competent authority.
8. OBC (Non-Creamy Layer) Certificate (in the name of the candidate) as in Central List.
9. 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

- a) 22.5% seats are reserved for SC/ST candidates (SC 15 % and ST 7.5 %, interchangeable, if necessary);
- b) 5% seats are reserved for the Children/Widows of armed personnel killed/disabled in action during the hostilities (CW) (Supernumerary Seats);
- c) 27% seats are reserved for OBC candidates (Non-Creamy layer, Central List); and
- d) 10% seats are reserved for Economically Weaker Section (EWS) Category from this academic year 2019-20.
- e) 5% seats are reserved for the Persons with Disabilities (PwD) candidates (Supernumerary Seats).

Admission Details

Guidelines for Admission on the Basis of Excellence in Sports 2019-20

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. 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/Sport	Position/Event/ Weight category	Seats in Sports Quota	
			In Figures	In Words
1.	Athletics	800 metres	01	One
		1500 metres	01	One
2.	Badminton	Elite Player	02	Two
3.	Basketball	Centre	01	One
		Forward	01	One
4.	Chess	Elite Player	02	Two
5.	Kho-kho	Runner	02	Two
		Chaser	02	Two
6.	Table tennis	Elite Player	02	Two
7.	Volleyball	Spiker	02	Two
		Setter	01	One
		Libero	01	Two

- 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.

Guidelines for Admission on the Basis of ECA Quota 2019-20

The college offers admissions in ECA (Extra Curricular Activities) category in the field of dance, music (both vocal and instrumental), dramatics (street play), N.S.S., etc. There are total of (12) Twelve seats for ECA quota. Students selected under this quota will have to necessarily become member of the respective college societies and will have to represent college as and when required. Students selected under this quota will have to sign an undertaking accepting these terms and conditions of the college.

S.No.	ECA Activity	Subcategory	ECA Seats in	
			Figures	Words
1	Dance	Indian Classical	01	One
		Indian Folk	01	One
		Western	01	One
		Choreography	01	One
2	Debate	Hindi	01	One
		English	01	One
3	Music	Indian	01	One
4	Musical Instruments	Percussion (<i>Tabla</i>)	01	One
5	Theatre		01	One
6	N.S.S.		01	One
7	Yoga		02	Two

Eligibility Criteria

Admissions to Undergraduate Courses 2019-20

Admissions to undergraduate (UG) courses at the University of Delhi are merit-based (that is, based on marks scored in Class XII Board/qualifying examinations) or entrance-based (that is, based on written/practical tests depending on the course selected by an aspiring student). All applicants must register through the University of Delhi online admissions portal <http://admissions.du.ac.in>. All undergraduate admissions for 2019-20 will be administered only through this portal.

Eligibility Criteria for Undergraduate Courses

- The applicant must be a citizen of India. (Applicants seeking admission under Foreign Students' category to apply separately on Foreign Students' Registry website, <http://fsr.du.ac.in>.)
- The applicant should have passed the Class XII examination of any Board/ University examination in India or in any foreign country recognized as equivalent to the 10+2 system by the Association of Indian Universities (AIU).
- The applicant should have "passed" individually in each subject required (including practicals if any) for calculating merit and eligibility to the course they seek admission in. Applicants with "compartment" results are not eligible to apply.
- Applicants with gap year(s) will not be at any disadvantage for the purpose of admission to undergraduate courses.
- Applicants under the UR/SC/ST/OBC/EWS categories are eligible to seek admission based on both merit and entrance tests to courses in all Colleges/ Departments (except Minority Colleges, wherein some categories may not be applicable).
- Applicants from Sikh & Christian minorities may also seek admission under the minority quota in the Minority Colleges of the University.
- The following categories are designated "supernumerary": i) PwD (Persons with Disabilities); ii) CW (Children/Widows of Personnel of the Armed Forces including Para-Military); iii) KM (Kashmiri Migrants); iv) Prime Minister's special scholarship for Jammu and Kashmir; v) SS (Nominated Sikkimese Students); vi) WQ (Ward Quota); vii) ECA (Extra-Curricular Activities); viii) Sports.

Categories i-viii above are applicable to courses where admission is based on merit. Only categories i and ii above are applicable to courses where admission is based on entrance tests.

Additional Eligibility Criteria

B. A. (Hons.) Psychology	<ul style="list-style-type: none"> • An aggregate of 45% marks in the qualifying examination. The merit shall be determined on the basis of one language and three best academic/elective subjects as given in List A & B. • Admission to B.A. (Hons.) Psychology will be based on 'Best Four' percentage.
B. B. A. [F. I. A.] (Bachelor of Business Administration [Financial Investment Analysis]) / B. M. S. (Bachelor of Management Studies)	<ul style="list-style-type: none"> • Aggregate of 60% or more marks in the qualifying examination in four subjects : English, Mathematics & any two other subjects included in List B. • Selection will be based on the rank computed from the combined weighted average of percentage scored in the entrance test and the percentage scored in the qualifying examination where the weights are: Entrance Test: 65%, Qualifying Examination : 35%.
B. Sc. (Hons.) Biochemistry	<ul style="list-style-type: none"> • 50% or more marks in English • An aggregate of 60% or more marks in Chemistry, Biology/ Biochemistry/ Biotechnology and Mathematics/Physics.
B. Sc. (Hons.) Biomedical Science	<ul style="list-style-type: none"> • An aggregate of at least 55% aggregate in Physics, Chemistry, Biology/Biotechnology (PCB/BT) subjects. • At least 50% marks in English (compulsory subject). Students having PCB/BT with Mathematics (at least 60% marks) will be given an advantage of 3% over and above their PCB/BT aggregate.
B. Sc. (Hons.) Physics / Chemistry / Instrumentation / Electronics	<ul style="list-style-type: none"> • The overall percentage in Physics, Chemistry and Mathematics should be 55% and one compulsory language should be 50%. • Selection will be made on the basis of aggregate marks in 3 subjects i.e. Physics, Chemistry and Mathematics.
B. Sc. (Hons.) Computer Science	<ul style="list-style-type: none"> • Mathematics, one language and two other subjects listed as academic subjects. • Should have secured : <ol style="list-style-type: none"> 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/ Informatics 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.

Eligibility Criteria

B. Sc. (Hons.) Food Technology	<ul style="list-style-type: none"> 55% or more marks in the aggregate of Physics, Chemistry, Mathematics/ Biology/Bio-technology (Practical & Theory together) and 50% in English as a compulsory language. Selection will be made on the basis of marks in the aggregate of Physics, Chemistry, Mathematics/Biology /Bio-technology, PCM or PCB/Biotechnology. Applicants who have studied both Mathematics & Biology, i.e., PCMB at qualifying exam will be given 3% relaxation.
B. Sc. (Hons.) Mathematics/ Statistics	<ul style="list-style-type: none"> 50% marks in Mathematics and an aggregate of 45% marks in the qualifying examination. The Merit shall be determined on the basis of one language, Mathematics and two best elective/academic subjects.
B. Sc. (Hons.) Microbiology	<ul style="list-style-type: none"> 55% or more marks in the aggregate of Physics, Chemistry, Biology/Biotechnology (Practical and Theory together) and passing in one compulsory language i.e. English with 50% marks.

List A : Language Subjects

List A1					List A2
Assamese Core/ Assamese Elective	Gujarati Core/ Gujarati Elective	Maithili Core/ Maithili Elective	Odia Core/ Odia Elective	Tamil Core/ Tamil Elective	Arabic Core/ Arabic Elective
Bengali Core/ Bengali Elective	Hindi Core/ Hindi Elective	Malayalam Core/ Malayalam Elective	Punjabi Core/ Punjabi Elective	Telegu Core/ Telegu Elective	French Core/ French Elective
Bodo Core/ Bodo Elective	Kannada Core/ Kannada Elective	Manipuri Core/ Manipuri Elective	Sanskrit Core/ Sanskrit Elective	Urdu Core/ Urdu Elective	German Core/ German Elective
Dogri Core/ Dogri Elective	Kashmiri Core/ Kashmiri Elective	Marathi Core/ Marathi Elective	Santhali Core/ Santhali Elective		Italian Core/ Italian Elective
English Core/ English Elective	Nepali Core/ Nepali Elective	Konkani Core/ Konkani Elective	Sindhi Core/ Sindhi Elective		Spanish Core/ Spanish Elective

List B : Elective Subjects

Accountancy	Computer Science/ Computer Applications/ Informatics Practices	Mathematics	Anthropology	Economics
Philosophy/ Logic & Philosophy	Biology/ Biochemistry/ Biotechnology	Geography	Physics	Business Mathematics
Geology	Political Science	Chemistry	History	Psychology
Civics	Home Science	Sociology	Legal Studies	Statistics
Commerce/ Business Studies	—	—	—	—

Note : The University may define any other relevant subjects as academic/elective for a particular course.

In case an applicant has studied elective and core languages, the core/elective language subject will be treated as language, while elective language can be considered as academic/elective subject.

The College

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 :

<i>S. No.</i>	<i>Name of Course</i>	<i>S. No.</i>	<i>Name of Course</i>
1	B. Sc. (Hons.) Biochemistry	8	B. B. A. [F. I. A.] (Bachelor of Business Administration [Financial Investment Analysis])
2	B. Sc. (Hons.) Biomedical Sciences	9	B. M. S. (Bachelor of 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.

An important aspect of teaching process is the ability to learn, unlearn and relearn. The teaching philosophy of the college is to follow coherent relationship between the teacher and the taught. The college has efficient staff to carry out effective and smooth functioning of day to day activities.

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 extra and co-curricular activities as well. There are various societies in the college that a student can join to explore her potential apart from academics.

IQAC@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@SRCASW



Teaching Staff



Para-Teaching and Administrative Staff

The Faculty

Principal, SRCASW, DU



Dr. Payal Mago¹
(Ph.D. (Botany),
M.Sc. (Botany),
University of Delhi)

Department of Biology



Dr. Rekha Mehrotra^{#2}
(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), DU

Department of Biomedical Science



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

Department of Biomedical Science



Dr. Varsha Mehra
(Assistant Professor)
Ph.D. (Biomedical Sciences) DU,
M.Sc. (Biotechnology), JNU



Dr. Mohd. Saquib Ansari
(Assistant Professor)
Ph.D. (Biochemistry), M.Sc. (Biochemistry)
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Dr. Indu Arora
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Dr. Jasjeet Kaur[#]
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Dr. Suruchi Chawla
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Deptt. of Computer Science

Department of Computer Science



Ms. Deepali Bajaj[#]
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Dr. Aakanksha
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Department of Electronics

Department of Food Technology

Department of Instrumentation



Dr. Deepa Joshi[#]
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Ms. Para Dholakia
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Department of Mathematics

Department of Physics



Dr. Punita Saxena^{#4}
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Dr. Alka Vohra Kuanr[#]
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Teacher-in-Charge, Respective Department | 1 Co-ordinator, Department of Financial and Management Studies |
2 Co-ordinator, Department of Microbiology | 3 Co-ordinator, Department of Psychology | 4 Co-ordinator, Department of Statistics |

Department of 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 spectr photometer 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.

Course Contents

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 Semester I-IV)

- Biochemistry of Cell
- Proteins and Enzymes
- Intermediary Metabolism
- Gene Organisation, Expression and Regulation
- Fundamentals of Cell Biology and Immunology

Skill Enhancement Course

(Any one per Semester in Semesters III-IV)

- Tools and Techniques in Biochemistry
- Protein Purification Techniques
- Clinical Biochemistry

- Bioinformatics
- Recombinant DNA Technology

Discipline Specific Elective

(Any two per Semester in Semesters V-VI)

- Nutritional Biochemistry
- Research Methodology
- Molecular Basis of Non-infectious Human Diseases
- Molecular Basis of Infectious Diseases
- Research Project
- Advanced Cell Biology
- Plant Biochemistry
- Basic Microbiology

Department of 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' 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), IIT, 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. 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.

Course Contents

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 Elective Papers (for other departments)

(Any one per Semester in Semester I-IV)

- 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 Course

(Any one per Semester in Semesters III-IV)

- 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 V-VI)

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

Department of 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. 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.



Course Contents

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 Generic Elective-1 Practical	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 Generic Elective-2 Practical
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 Generic Elective-3 Practical	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 Generic Elective-4 Practical
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

1. Inorganic Chemistry I : Atomic Structure & Chemical Bonding
2. Physical Chemistry I : States of Matter & Ionic Equilibrium
3. Organic Chemistry I : Basics and Hydrocarbons
4. Physical Chemistry II : Chemical Thermodynamics and its Applications
5. Inorganic Chemistry II : s-and p-Block Elements
6. Organic Chemistry II : Oxygen Containing Functional Groups
7. Physical Chemistry III : Phase Equilibria and Electrochemical Cells
8. Inorganic Chemistry III : Coordination Chemistry
9. Organic Chemistry III : Heterocyclic Chemistry
10. Physical Chemistry IV : Conductance & Chemical Kinetics
11. Organic Chemistry IV : Biomolecules
12. Physical Chemistry V : Quantum Chemistry & Spectroscopy
13. Inorganic Chemistry IV : Organometallic Chemistry
14. Organic Chemistry V : Spectroscopy

Discipline Specific Elective Papers (Credit : 06 each) (4 papers to be selected)

DSE 1 : Any one of the following :

1. Novel Inorganic Solids
2. Inorganic Materials of Industrial Importance

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

1. Applications of Computers in Chemistry
2. Analytical Methods in Chemistry
3. Molecular Modelling & Drug Design
4. Polymer Chemistry
5. Research Methodology for Chemistry
6. Green Chemistry
7. Industrial Chemicals & Environment
8. Instrumental Methods of Analysis
9. Dissertation

Other Discipline : GE 1 to GE 4

1. Mathematics
2. Physics
3. Computer Science

Skill Enhancement Courses

1. IT Skills for Chemists
2. Basic Analytical Chemistry
3. Chemical Technology & Society
4. Chemoinformatics
5. Business Skills for Chemists
6. Intellectual Property Rights
7. Analytical Clinical Biochemistry
8. Green Methods in Chemistry
9. Pharmaceutical Chemistry
10. Chemistry of Cosmetics & Perfumes
11. Pesticide Chemistry
12. Fuel Chemistry

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

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

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

Department of 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.



Course Contents

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-III
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)

- System Programming
- Numerical Methods
- Operational Research for Computer Science

DSE-II (any one)

- Microprocessor
- Modeling and Simulation
- Advanced Algorithms

DSE-III (any one)

- Machine Learning
- Introduction to Data Sciences
- Combinatorial Optimization

DSE-IV (any one)

- Digital Image Processing
- Data Mining
- Project Work / Dissertation

General Elective Papers (GE) (Minor - Computer Science) for other Departments / Disciplines : (Credit : 06 each)

GE-I Introduction to Programming

GE-II Introduction to Database Systems

GE-III Computer Networks and Internet Technologies

GE-IV Information Security & Cyber Laws

Department of 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.



Course Contents

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 Verilog 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. Nanoelectronics
11. Embedded Systems
12. Biomedical Instrumentation
13. Transmission Lines, Antenna & Wave Propagation
14. 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 Technologies
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

Department of 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 icecream 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 refracto - meter, 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 spectro -photometer, rancimat, fat analyser, protein analyser, Reverse Osmosis plant and SO₂ 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.



Course Contents

B.Sc. (Hons.) Food Technology

SEMESTER 1	SEMESTER 2
C-I : Introduction to Food Technology C-II : Principles of Food Science AECC-I : English/MIL Communication or EVS GE-I*	C-III : Technology of Food Preservation C-IV : Food Processing Technology AECC-II : EVS or English/MIL Communication GE-II*
SEMESTER 3	SEMESTER 4
C-V : Food and Nutrition C-VI : Technology of Fruits, Veg. & Plantation Crops C-VII : Technology of Dairy & 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*	C-XIII : Food Chemistry-II C-XIV : 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

* Any 4 DSE, 2 SEC and 4 GE to be picked up by the student.

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

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)

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

Department of 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 November 2017.

Department of Instrumentation along with department of Food Technology and Biomedical 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 a 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.

Course Contents

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 Verilog 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)

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

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)

Department of Management and Financial Studies

The Department of Management and Financial 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, Financial 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, Financial and managerial problems through providing an environment of collaborative and multi-disciplinary 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 in 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, wi-fi 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 Taxation, Auditing, Human Resource, Marketing, Operations, Finance, Economics, Accountancy, Business Research, Statistical methods, Law 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 'Tidiara', trip and field visits to places like **SEBI, Coca Cola factory** etc. which provide a platform for students to develop and enhance their managerial and financial skills with practical know-how. Various seminars and symposiums related to subjects by eminent speakers like **Mr. Sanjeev Sanyal (Principal Economic Advisor, Ministry of Finance, Govt. of India)**, **Mr. Atul Mittal (Director, Deloitte Haskin & Sells LLP)** are organized from time to time to keep the students abreast of the latest happenings in the business world. In



Department of Management and Financial Studies

addition to this lot of workshops related to leadership, managerial and financial tools, personality development and social outreach programs are conducted. Many of these activities attract a huge number of participants from various management and financial institutions.

BMS, especially at DU is perceived to be a Mini MBA which can fetch great placements after completing MBA. It makes you competent to start a new venture or continue forward with your parents/ family business. BBA (FIA) is perceived for students who aspire to enhance their efficacy in the field of finance.

The department has its own '**Training and Placement Cell**' which provides support and assistance to students for internships and placements. 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. 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
- *Others* : Investment Advisory Services, Portfolio Management services, Corporate Finance, International Finance, Capital and Money Markets, Merchant Banking, Credit Rating, Venture Capital, Forex Advisory Services etc.



Course Contents

Bachelor of Management Studies (BMS)

SEMESTER 1	SEMESTER 2
C-I : Fundamentals of Mgmt. & 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

(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

Course Contents

Bachelor of Business Administration (Financial Investment Analysis) 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

(Any two per Semester 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

Department of 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 intercollege 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.



Course Contents

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

Department of Microbiology

The Department of Microbiology is currently offering a three year B. Sc. (Hons.) Microbiology program under CBCS Mode. Microorganisms have an immense impact on our day to day lives, be it maintenance of the environment and serving as important industrial tools or as causative agents of several human, animal and plant diseases as well as food spoilage. The vision of the department is to educate and train students in the discipline of microbiology and to expand the body of knowledge of this scientific field through active research. The department aims at creating awareness and sensitizing a common man through social outreach programs about the importance of microorganisms affecting each one of us.

Among the many reasons to study microbiology is to gain basic knowledge of the field needed to pursue careers in medical science, ecology, agriculture, pharmaceutical sciences and diagnostics, aquatic microbiology and biotechnology.

The Department has spacious laboratories with basic and advanced instruments and has facilities such as media preparation room, bio-instrumentation room, inoculation room and a culture room. The labs are well equipped with various instruments like microscopes, shaker incubator, laminar flow cabinet, incubator, UV spectrophotometer, centrifuge, digital pH meter, electronic weighing balances, colony counter, gel electrophoresis units, tissue culture racks, autoclaves etc.

The Department has a duly elected student council “ETHEREAL” which organises events, seminars and interactive sessions with eminent scientists, academicians and entrepreneurs to abreast them with latest research in the field. The department also regularly organizes field trips to various reputed research laboratories and industries.



Course Contents

B.Sc. (Hons.) Microbiology

SEMESTER 1	SEMESTER 2
C-I : Introduction to Microbiology & 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

Department of 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.



Course Contents

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 : Lab (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

Department of Psychology

The Department of Psychology was established in the year 2017 and currently runs a three year undergraduate course for B.A. (Honours) Psychology. The curriculum has been designed to provide theoretical and applied knowledge in the various sub-domains of Psychology viz; Foundations of Psychology, Social and Cultural Psychology, Clinical Psychology, Life Span Development, Organizational Behavior, Statistics and Research Methodology, and Bio-Psychology.

The aim of the Department is to produce psychologists who can apply conceptual knowledge to the real world settings. The teaching-learning process includes interaction based lectures, use of e-learning resources, audio-visual aids, movie screening, journals and research articles to enrich the learning process amongst students. The department encourages students to develop a holistic approach and to explore research interests beyond class room teaching.

The Department has an academic society named 'Psymentia' – A window to psyche mind and conscientia. Since 2017, it has organized various events like interactive sessions on interpersonal relationships, stress management, movie analysis etc. It had also organized various interesting workshop on topics like psychodrama, body language, music and art therapy to give students an insight about various contemporary themes of psychology. The highlight of the society is its Annual Psychology Fest 'Trezire' which aims to organize various events like panel 'iscussion and inter college competitions. The department also releases its annual magazine 'Sophrosyne' that has details of the achievements of the department

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



Course Contents

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) AECC-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) AECC-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; AECC : Ability Enhancement Elective Courses; SEC : Skill Enhancement Courses; DSE : Discipline Specific Elective

Generic Elective Papers (for other department)

(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)

Department of Statistics

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.

The Department of Statistics helps students acquire the conceptual, computational, and mathematical tools for quantifying uncertainty and making sense of complex data arising from many applications. 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



Course Contents

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: Stat. Computing using C/C++ Programming DSE-I : Discipline Specific Elective DSE-II : Discipline Specific Elective	C-XIII: Design of Experiments C-XIV: Multivariate Analysis & 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

Discipline Specific Elective

(Credit : 06each)

DSE-I

1. Time Series Analysis
2. Demography and Vital Statistics

DSE-II

1. Operations Research
2. Econometrics

DSE-III

1. Actuarial Statistics
2. Survival Analysis

DSE-IV

1. Financial Statistics
2. Project Work

Department of 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 1– 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.



Facilities@SRCASW

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.

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.



Facilities@SRCASW

Other Infrastructural Facilities

Besides the above, the college has auditorium, amphitheater, lecture theaters, conference rooms, lush green playgrounds as well as well furnished staff rooms for the faculty.



Playground



Conference Room



Amphitheater



Auditorium



e-Library



The Cafeteria

Milestones@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 initiating many more international exchange programs along with other renowned universities in Europe.



SLEZSKÁ
UNIVERZITA
V OPAVĚ

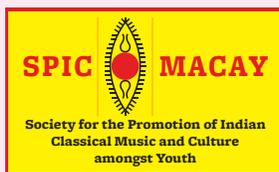


SHAHEED RAJGURU
COLLEGE OF APPLIED
SCIENCES FOR WOMEN

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. In India Rankings-2019 amongst the 1087 institutes, our college was ranked as 31st 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.





AARAMBH is an initiative towards mental health to promote mental well being of the students with the aim of spreading awareness about mental health issues and trying to remove the stigma and taboos attached to it. The society promotes mental health and spread its awareness through workshops, seminars and interactive events.



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.



ENACTUS has a vision to create a better world by solving social issues via sustainable business models. It aims at taking up business projects from the inception stage and working on them till they become sustainable and positive change agent in the society. The student's society is developing progressively with its first project, 'Pahachan'. Project Pehchaan is an initiative to facilitate holistic growth of the LGBTQIA+ community and to ensure their greater participation in the mainstream society.



Through regular visits to various NGOs, the project saw more than fifty enrolments from the target community. A certification course of six months is being run for the community to impart employable skills in various fields like Yoga, English, Personality Development, Computer, Salon Training, Food Technology, Stitching and Classical Music. A millet based food production enterprise, 'SEHEJ' is also developed under the project which translated three members of the LGBTQIA+ community into entrepreneurs producing its first product that is Bajra Cookies. Throughout the process of envisaging a project for the society and materialising it, Enactus SRCASW provides a platform to its students to develop entrepreneurial skills with high visionary goals for the society.

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'.



GLOBETROTTERS is a travel and tourism society of our college, to encourage the idea of travelling and exploring new and hidden adventures. With a group of young and enthusiastic travellers, it aims at building a platform of shared knowledge by looking at the world and its people differently. It fosters this idea through various talks, games, travelling in and around the city and various activities such as Dastaan, Manzil Pukare, etc.



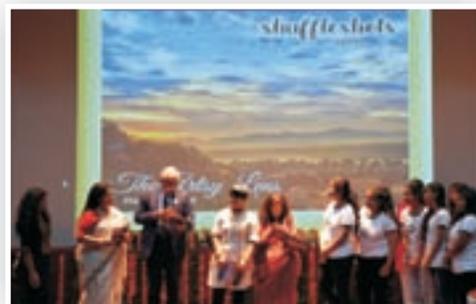
INKLINGS, *the literary society*, the den of passionate writers and eloquent orators. Inklings organised an annual literary festival, Quintessence, in the College for the first time ever, which witnessed a plethora of literary and fun events. Hundreds of literary high brows attended the event making it a success in its maiden year. Along with that many English as well as Hindi debating, speech and poetry events were held throughout the year.



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”.



A number of activities were organised by student council under the guidance of Cultural Secretary, Dr. Alka Vohra and Student Advisor, Dr. Sneha Kabra. The activities are as follows:

Independence Day – On August 14th, 2018, Shaheed Rajguru College of Applied Sciences for Women celebrated Independence day with zeal and spirit befitting the occasion.

Rajguru Day Celebration – On August 24th, 2018 the Core cultural Committee led by Dr. Alka Vohra, Cultural Secretary organized Rajguru Day in the college auditorium. It was the matter of pride and joy for all the Rajgurians to celebrate the birthday of Indian revolutionary Shivram Hari Rajguru. To express the deep sentiments and true gratitude, Rajgurians zealously celebrated the Rajguru Day.

FM Radio – Shaheed Rajguru college of applied sciences for women organized an event conducted by 94.5 Red FM on 30th August 2018 in the college premises. The 94.5 FM radio along with their team anchored the programme and conducted many fun games.

Fresher's Party – In order to welcome the Fresher's batch of 2018, a Fresher's Party was organized in the college auditorium on August 28th, 2018. The theme of the party was Bollywood Retro.



Student Council Elections – Student council elections were conducted in Shaheed Rajguru College of applied sciences for women on September 5th, 2018 under the Lyngdoh Committee guidelines.

Hindi Divas – 'Hindi Divas' was celebrated at Shaheed Rajguru College of Applied Sciences for Women, University of Delhi on the September 14th, 2018.



Oath Taking Ceremony – The Oath-taking ceremony of the newly elected office-bearers of Student's Council for 2018-19 took place on 11th October 2018.

Speech Competition – On November 1st, 2018, a speech competition on the topic Patriotism and Nation Building was organized by the Student council in association with Nehru Yuva Kendra Sangathan in the college.

Diwali Party – Diwali party is synonymous to bonding with cultural roots and acquainting students to the rich Indian culture and heritage, Student council hosted the Diwali party on 2nd November 2018.

Seminar on Entrepreneurship – With the motive to inculcate entrepreneurship within the students the Student council of SRCASW organised a 3-hour workshop on the topic “Introduction of MBA and Role of Higher Education in Entrepreneurship” in association with Chanakya IAS academy on January 11th, 2019.

Pareeksha pe Charcha – During the examination time of the year when many students experience stress, honorable Prime Minister Narendra Modi interacted with several students from across the country and shared his personal experiences with the young audience through live webcast called “Pareeksha pe Charcha” on January 29th, 2019 in the Seminar Room.

NPC – National Productivity Council under Ministry of Commerce and Industry organized a painting/ poster/ drawing competition on the theme “Circular Economy for Productivity and Sustainability” for students of Graduation and Post-graduation.

Talent Hunt – The Student Council of 2018-19 organised a Talent Hunt (for Rajgurites) on February 11th, 2019 where Rajguru Students were encouraged to showcase their talents in 4 different arenas – Dance, Music, Drama and Comedy.

Karvaan’19, the Annual Cultural Festival – Shaheed Rajguru College of Applied Sciences for Women, University of Delhi, organized its cultural fest Karvaan 2019 on February 14-15, 2019 with the tagline “Karvaan 2019 – Iss Baar Hoga Thoda Hatke”.

Art of Living Live Webcast – A Live Webcast was shown in which several dignitaries launched ‘Drug Free India’ on February 19th, 2019, 11.00 am in Haryana.

Live Webcast of National Youth Parliament Awards – On February 27th, 2019, Prime Minister, Shri Narendra Modi, attended the closing ceremony of National Youth Parliament Festival Awards 2019, at Vigyan Bhawan, in New Delhi which was featured live in the college Seminar Hall.



Social Initiatives@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 organize 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 HRD 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

'Pravridhi' symbolizes passion and responsibility towards nature. It aims to create awareness, generate concern and sensitize the college community towards a healthy environment around us. Several activities such as Best out of waste articles, Poster Designing on environmental issues and innovative note pads made from waste paper etc. are undertaken every year. Eco Day is also 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.



College Regulations

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 semester examination. The students are required to maintain discipline and silence in and around classrooms and laboratories. The students are required not to use their mobile phones while teaching or lectures or seminars are going on.

The college will not be responsible for any event organized by the students 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 an amount as per the college rules.

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. Students will get login/password to access 135000 e-books and 5000 e-journals, besides printed books.

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 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.

College Regulations

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.

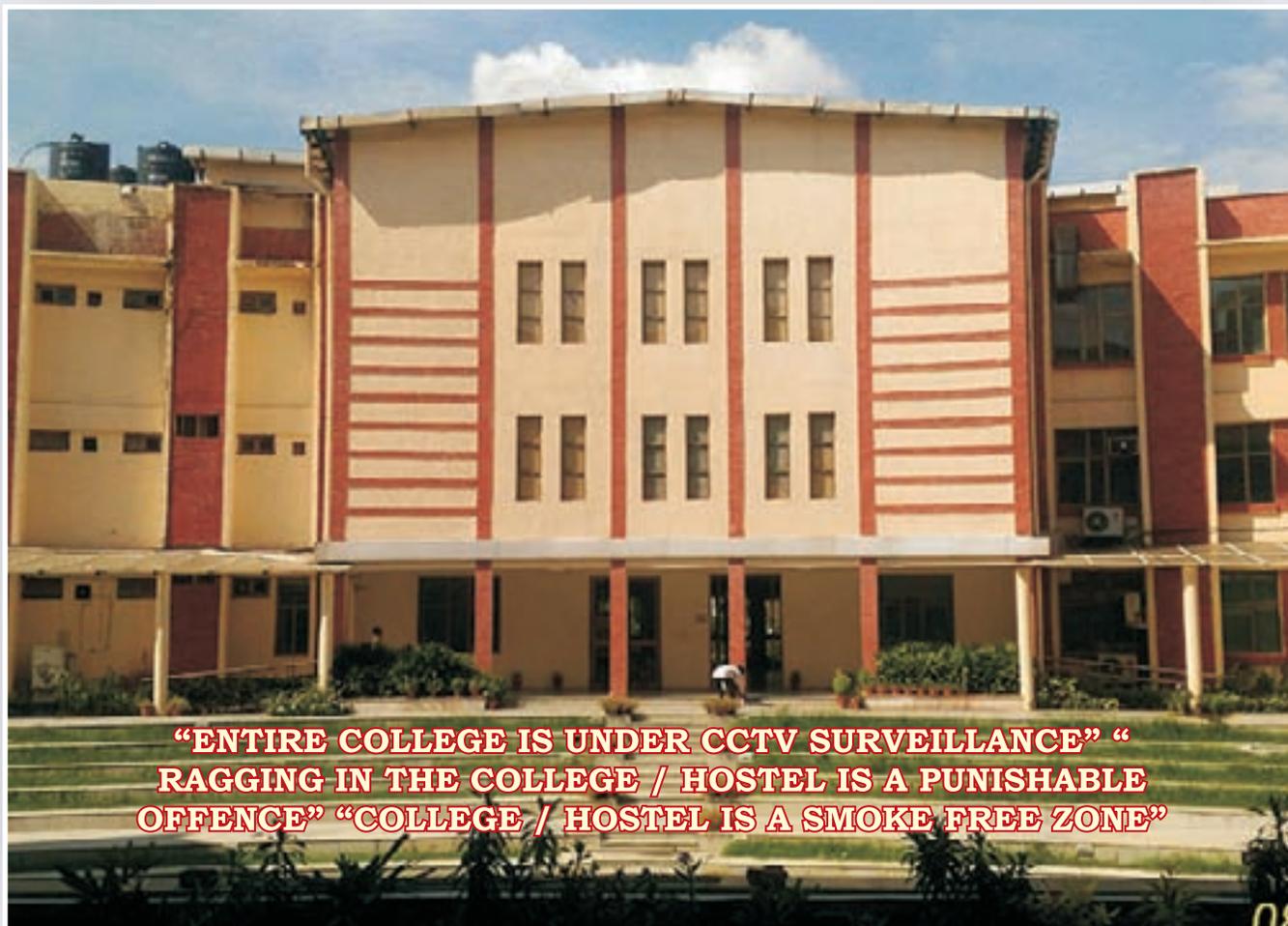
Scholarships

All eligible SC/ST, OBC, PwD students etc. should submit their scholarships form online for every academic year as and when announced on National Scholarships Portal.

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.



Ordinances

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.

Ordinances

- 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 moto 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>.

Committees

Admission Committee

Dr. Punita Saxena (Convenor)	9810221483
Dr. Sadhna Jain (Convenor)	9810103664
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. Deepali Bajaj, Assistant Professor, Department of Computer Science	9899291274
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. Radhika Bakshi, Coordinator, Department of Biomedical Science	9810599435

Admission Grievance Committee

Dr. Mohd Saquib Ansari (Convenor)	9868877867
Dr. Ranjana Singh	9818258145

Sport Admission Committee

Ms. Venika Gupta (Convenor)	9953469945
Dr. Bimla Pawar (Co-Convenor)	9810224259

ECA Admission Committee

Dr. Deepa Joshi (Convenor)	9810950353
Dr. Ranjana Singh	9818258145

Special Categories Admission Enabling Committee

Dr. Mohd. Saquib Ansari (Convenor)	986877867
Ms. Preeti Singhal	9868516331

Proctorial and Anti-ragging Committee

Dr. Daya Bharadwaj	9811239028
Dr. Varsha Mehra	9971703464

Internal Complaint Committee

Ms. Veenika Gupta	9953469945
Ms. Preeti Singhal	9868516331

Fee Concession Committee

Dr. Punita Saxena (Convenor)	9810221483
Ms. Preeti Singhal	9868516331

Seat Matrix

S.No.	Course	General	OBC	SC	ST	EWS	Total	PwD	CW	Kashmiri Migrant	Sports	ECA	Ward Quota	Foreign National	Total Supernumery
1	B.Sc. (Hons.) Biomedical Sc.	16	10	5	3	2	36	2	2	2	1	1	2	2	12
2	B.Sc. (Hons.) Biochemistry	16	10	5	3	2	36	2	2	2	1	1	1	2	11
3	B.Sc. (Hons.) Chemistry	16	10	5	3	2	36	2	2	2	2	1	1	2	12
4	B.Sc. (Hons.) Computer Sc.	23	14	8	4	2	51	2	2	2	2	1	2	2	13
5	B.Sc. (Hons.) Electronics	16	10	5	3	2	36	2	2	2	1	1	1	2	11
6	B.Sc. (Hons.) Food Technology	16	10	5	3	2	36	2	2	2	1	1	1	2	11
7	B.Sc. (Hons.) Instrumentation	16	10	5	3	2	36	2	2	2	1	1	1	2	11
8	B.Sc. (Hons.) Mathematics	23	14	8	4	2	51	2	2	2	2	1	2	2	13
9	B.Sc. (Hons.) Microbiology	16	10	5	3	2	36	2	2	2	1	1	1	2	11
10	B.Sc. (Hons.) Physics	23	14	8	4	2	51	2	2	2	2	1	2	2	13
11	B.A. (Hons.) Psychology	23	14	8	4	2	51	2	2	2	3	1	2	2	14
12	B.Sc. (Hons.) Statistics	23	14	8	4	2	51	2	2	2	1	1	1	2	14
13	B.M.S. (Bachelor in Management Studies)	23	14	8	4	2	51	2	2	2	0	0	0	2	8
14	B.B.A (F.I.A.) (Bachelor in Business Administration [Financial Investment Analysis])	23	14	8	4	2	51	2	2	2	0	0	0	2	8

Fee Structure

FEE STRUCTURE 1ST YEAR FOR THE ACADEMIC YEAR 2019-2020

(A)	Maintenance Account	Amount	Amount	(B)	Student's Society Account	Amount
1	Tuition Fee (July-June)		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		2000.00	3	Student's Aid Fund	200.00
4	Identity Card Fee		100.00	4	Security Deposit (Refundable)	500.00
5	Garden Fee		500.00	5	Medical Fee	150.00
6	Water & Electricity Fee		1500.00	6	Development Fee	2000.00
7	Laboratory Fee		2500.00	7	Picnic & Excursion Fee	400.00
8	University Enrolment Fee		200.00	8	Seminar/Exhibition Fee	500.00
9	University Athletic Association Fee		50.00	9	In-house Examination Fee	0.00
10	University Cultural Activities Fee		5.00	10	Prevention of Sexual Harassment Fee	10.00
11	University Development Fee		600.00	11	World University Services Fee	5.00
12	Computer Laboratory Fees		1200.00	12	Others	0.00
13	N.S.S. Fund		20.00			
14	Computer Science Course Fee	15000.00				
15	Biomedical Science Course Fee	10000.00				
16	Business Administration (BBA(FIA))	11000.00				
17	University Examination Fee		0.00			
18	Internet Facility		0.00			
19	Placement Brochure Fee (For final year Student)	200.00	0.00			
20	Fine		0.00			
	Total (A)		9355.00		Total (B)	6265.00
	Total (A+B)					15620.00

COURSE AND CATEGORY-WISE FEES FOR THE ACADEMIC SESSION 2019-20

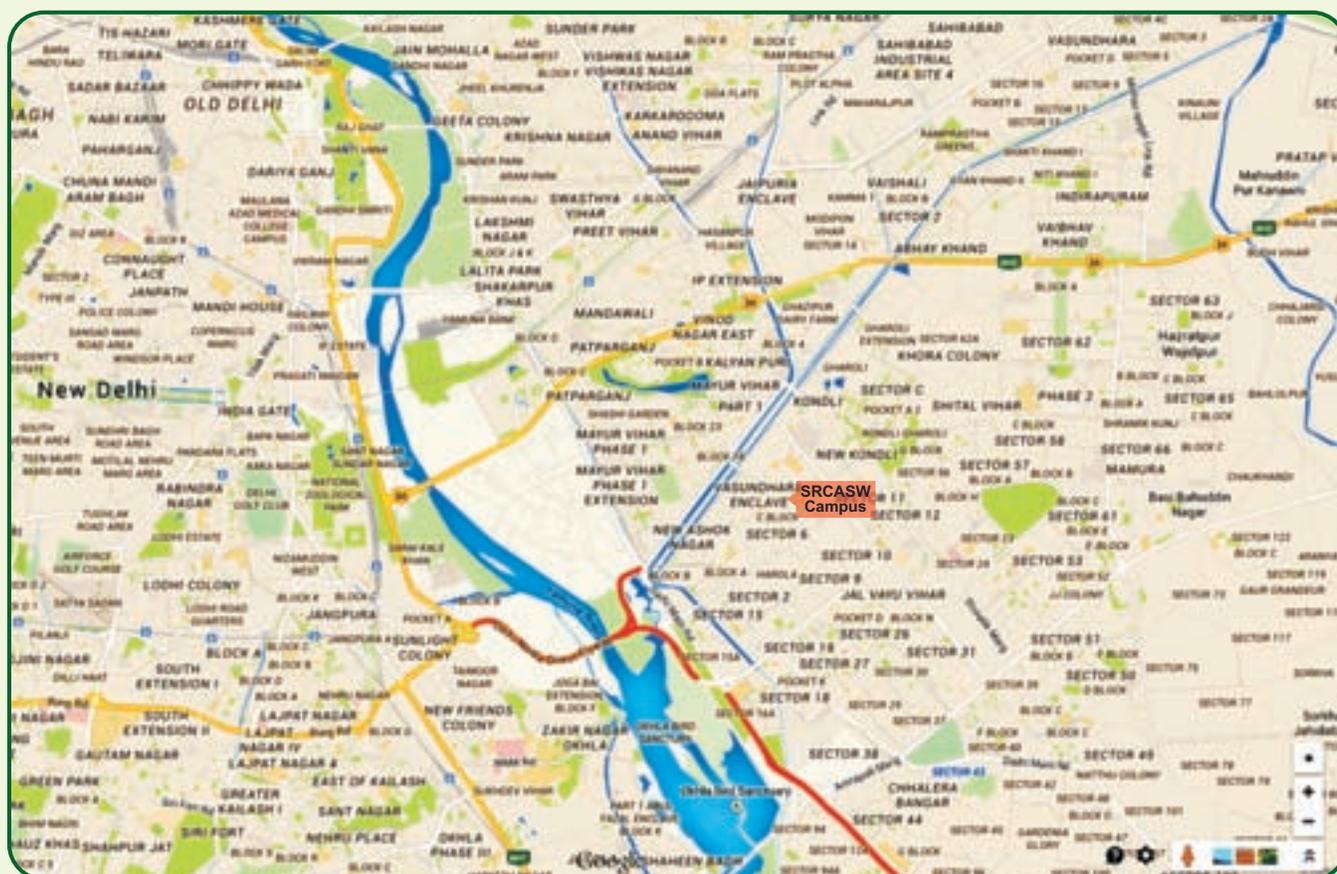
S.No.	Course	GEN	OBC	SC	ST	EWS	PwD	CW	KM	Sports	ECA	Ward Quota	Foreign National
1	Biomedical Science	25620	25620	25440	25440	25620	1490	25620	25620	25620	25620	25620	39820
2	Biochemistry	15620	15620	15440	15440	15620	1490	15620	15620	15620	15620	15620	29820
3	Chemistry	15620	15620	15440	15440	15620	1490	15620	15620	15620	15620	15620	29820
4	Computer Science	30620	30620	30440	30440	30620	1490	30620	30620	30620	30620	30620	44820 (SAARC) 190620 (others)
5	Electronics	15620	15620	15440	15440	15620	1490	15620	15620	15620	15620	15620	29820
6	Food Technology	15620	15620	15440	15440	15620	1490	15620	15620	15620	15620	15620	29820
7	Instrumentation	15620	15620	15440	15440	15620	1490	15620	15620	15620	15620	15620	29820
8	Mathematics	15620	15620	15440	15440	15620	1490	15620	15620	15620	15620	15620	29820
9	Microbiology	15620	15620	15440	15440	15620	1490	15620	15620	15620	15620	15620	29820
10	Physics	15620	15620	15440	15440	15620	1490	15620	15620	15620	15620	15620	29820
11	Psychology	15620	15620	15440	15440	15620	1490	15620	15620	15620	15620	15620	29820
12	Statistics	15620	15620	15440	15440	15620	1490	15620	15620	15620	15620	15620	29820
13	B.M.S.	15620	15620	15440	15440	15620	1490	15620	15620	15620	15620	15620	29820
14	B.B.A. (F.I.A.)	26620	26620	26440	26440	26620	1490	26620	26620	26620	26620	26620	40820

FEE REFUND POLICY

Rules for refund of Fee on account of Withdrawal/Cancellation of Admission

S. No.	Reasons for seeking refund	Quantum of fee to be refunded
1	When a student applies for withdrawal of admission up to last date of admission	Full fee after deduction of Rs. 1000/- and full examination fee.
2	When admission is made inadvertently due to error/ omission/commission on the part of the University/College	Full fee and full examination fee.
3	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.
4	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.
5	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.

Route Map – SRCASW, Vasundhara Enclave, Delhi



Sector 15, NOIDA, UP (2.5 Km)

Nearby Metro Stations : New Ashok Nagar, Delhi (3.7 Km)

Mayur Vihar Extension, Delhi (4.5 Km)



Shaheed Rajguru College of Applied Sciences for Women (University of Delhi)

Vasundhara Enclave (Adjoining Chilla Sports Complex), Delhi - 110 096

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