



BHASKARACHARYA COLLEGE OF APPLIED SCIENCES (UNIVERSITY OF DELHI)



Sector-2, Phase-I, Dwarka, New Delhi-110075

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2016-17

From the Principal's Desk

“Arise, Awake and stop not till the goal is reached.”

- Swami Vivekananda




We as an Institution take these words as a source of inspiration for helping our students and staff to achieve their goals. We also believe that the Guru (teacher) should have Gurutvakarshan (Gravitational force) which attracts everybody and everything towards himself/herself through his/her knowledge and wards off the darkness through illumination of mind.

The college currently offers eight undergraduate courses in various disciplines of Science and Applied Sciences being taught. Some of the courses have the distinction of being offered in very few colleges of University of Delhi, which makes it a sought after destination for students with an eye for educational training. Also from this year we are introducing three additional new B. Sc. (Hons.) Courses – Botany, Zoology, Chemistry and few other courses like Ecology, Economics are in the pipeline as we speak.

As knowledge knows no boundaries, it breaks through all barriers and we are trying to accomplish this by building Inter-Departmental collaborations. But we don't want to just stop there as we believe in *Vasudhaiva Kutumbakam*- the world is one family, so we are trying to reach out to both domestic and foreign Universities and also establishing MoUs with them.

Science is not just about reading books, but also its application and going beyond. Here in BCAS, we are providing ample opportunities to our students to work in DU Innovation Projects, extramural projects, summer trainings, and workshops to keep our students at par with the world. The college also receives grant under star college scheme from Department of Biotechnology to improve teaching and learning environment.



The college provides a strong platform for extra-curricular activities. There are several clubs and societies in the college dedicated to support and to hone the skills of our gifted students. Our students have done us proud in inter-college and inter-university competitions and have brought many honours.

With the rising culture of entrepreneurship, we highly encourage our students to innovate and establish their own start-ups. The College is planning to establish its own entrepreneurship cell. Many of our alumni have carved a niche for themselves in varied careers and are guiding spirits for their juniors.

“Educationists should build the capacities of spirit of inquiry, creativity, entrepreneurial and moral leadership among students and become their role models” and these words of Dr. A.P.J. Abdul Kalam are our motto.

The most important thing is to never stop questioning and constantly strive to find answers. With these words, I extend a warm welcome to the young aspirants.

Best Wishes,

Dr. Balaram Pani

General Introduction

1. **The College is a *NO Smoking zone* of the University of Delhi.**
2. All Undergraduate degree courses shall be taught in Choice Based Credit System (CBCS) semester mode.
3. This bulletin contains essential information for all those who have passed Senior Secondary Certificate Examination (Class XII) of the Central Board of Secondary Education or an Examination recognized as equivalent thereto (hereinafter called the Qualifying Examination) and wishes to seek admission to various undergraduate courses offered by the college.
4. Candidate seeking admission to the courses should have passed the qualifying examination obtaining minimum marks as specified for each course.
5. Details of the courses offered, number of seats, minimum eligibility conditions, college rules and admission rules are outlined in this Bulletin.
6. No student whose name appears in the admission list or who qualifies on the basis of the percentage indicated in a list declared by the college shall be denied admission provided he/she completes the procedure by the date and time stipulated.
7. There is no minimum age bar for admission to undergraduate courses.
8. Admissions in all the courses including admission under reserved categories also are provisional and subject to verification of certificates and approval of the University of Delhi.
9. The applications for admission in the courses in respect of candidates belonging to the Examining bodies of Boards/ Universities recognized/ accredited by the Association of Indian University/ UGC/ MHRD shall be considered by the college in terms of the guidelines received from the University of Delhi. Grade conversion shall in accordance of AC resolution no. 319, dated 22.03.1976.
10. Applicants are advised to read carefully the College Prospectus and Information Bulletin issued by the University of Delhi separately.
11. All the announcements regarding admission to the various courses will be put on the College Notice Board as well as College website and no individual intimation will be sent.

Every attempt has been made to verify the authenticity of the contents of the Prospectus2016-17. However, the college will not be responsible for any wrong information and the consequences of using such information. The data contained in this Bulletin is indicative only and must not be used for legal purposes. Any information given here is subject to change without information as per the guidelines of the University as and when received.

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Bhaskaracharya-The Great Mathematician

Bhaskaracharya was one of the most celebrated mathematician and astronomer in the 12th century.

Bhaskaracharya's masterpiece, *Siddhanta-Siromani* (sanskrit for crown of treatises), composed in the year 1150 A.D, is aptly considered to be the pinnacle of those times. A mammoth work comprising 1450 verses, *Siddhanta-Siromani*, is divided into four parts: *Lilavati* (arithmetic), *Bijaganita* (algebra), *Goladhyaya* (celestial globe), and *Grahaganita* (mathematics of the planets). Each part, considered to be a book, contains simplistic methods for calculations from arithmetic and astronomy.

Bhaskaracharya was the first to give that any number divided by zero gives infinity. He described easy methods to find the squares, square roots, cube, and cube roots of big numbers. The great mathematician developed a proof of the Pythagoras theorem and gave an approximate value of PI as $22/7$.

In one of his work, Bhaskaracharya wrote, *"The hundredth part of the circumference of a circle seems to be straight. Our earth is a big sphere and that's why it appears to be flat."* Bhaskaracharya explained about gravity in *Surya Siddhanta*, before Sir Isaac Newton explained this phenomenon. He calculated derivatives of Trigonometric functions and formulae.

Bhaskaracharya through his remarkable contribution in the field of mathematics and astronomy achieved an outstanding reputation for himself.

One of the poets in his tributes to this great man rightly said:

"Triumphant is the illustrious Bhaskaracharya whose feats are revered by both the wise and the learned. A poet endowed with fame and religious merit, he is like the crest on a peacock."



About the College

Bhaskaracharya College of Applied Sciences, named after a great mathematician of 12th Century was set up in October, 1995. This is a constituent college of University of Delhi and is fully supported and funded by Government of NCT, Delhi. The sprawling campus of the college spans about ten acres of land with exquisite landscaping and captivating architecture. The college has well equipped laboratories, extensive library facility, classrooms with LCD projectors, auditorium, open air theatre and a spacious sports ground. The campus of the college is wi-fi enabled.

The college provides a stimulating environment for holistic development of the students. They are motivated to excel in academics and attain University positions in their respective disciplines. They are provided with ample opportunities through participation in several extracurricular activities organized by various clubs, societies and committees. The societies of various Departments provide a platform for interaction with renowned academicians and scientists from their respective fields. The college also offers opportunities to learn several contemporary subjects in the form of short term add on courses that are being taught by eminent subject experts from within and outside. Besides this, in order to inculcate research aptitude, skills and synergy among students and faculty, various Research and Innovation projects are being conducted in the college. The college is a member of the Star College Scheme of Department of Biotechnology, Government of India. Under this scheme, college conducts various academic activities such as workshops, lectures, industrial visits, research projects and outreach programs. To motivate students to get them involved for the cause of society and work for the upliftment of weaker sections, college has a dedicated NSS team of students which conducts various activities like blood donation camps, medical check up camps, awareness programs, tree plantation and swachhta drives. Every year, College organizes various sports activities and encourages the students to participate in Intercollegiate and open tournaments. The College also has a well-established Training and Placement Cell which works in tandem with Central Placement Cell of University of Delhi for internship as well as placement of deserving students. The Cell coordinates with industries and R&D organizations to explore the employment opportunities for the students. The dedicated faculty of the College is involved in guiding Ph.D. students of various renowned universities.

With all these developments Bhaskaracharya College has established itself among the prestigious colleges of Delhi University and is determined to scale new heights with the combined efforts of dedicated faculty, enthusiastic students and staff members.

Admission Schedule

S. No.	Activity	Date
1	Notification of First Admission List	27 th June 2016
2	Document verification and approval of admission	27 th June 2016 to 29 th June 2016 (upto 1 PM*)
3	Notification of Second Admission List	01 st July 2016
4	Document verification and approval of admission	01 st July 2016 to 04 th July 2016 (upto 1 PM*)
5	Notification of Third Admission List	07 th July 2016
6	Document verification and approval of admission	07 th July 2016 to 09 th July 2016 (upto 1 PM*)
7	Notification of Fourth Admission List	12 th July 2016
8	Document verification and approval of admission	12 th July 2016 to 14 th July 2016 (upto 1 PM*)
9	Notification of Fifth Admission List	16 th July 2016
10	Document verification and approval of admission	16 th July 2016 to 19 th July 2016 (upto 1 PM*)

Courses Offered

EXISTING *COURSES*

B.Sc.

- Biomedical Science
- Computer Science
- Electronics
- Food Technology
- Instrumentation
- Microbiology
- Physics
- Polymer Science

NEW *COURSES* *from* *ACADEMIC* *SESSION* *2016-17* *B.Sc.*

- Botany
- Chemistry
- Zoology

Course details**

Course	(No. of Seats)* Gen/SC/ST/OBC/PH^	First Cut off (for General Category) % in 2015
B.Sc.(H)Biomedical Sciences	(45) 23/7/3/12/1^	95 % Physics, Chemistry, Biology/ Biotechnology
B.Sc.(H)Botany	(31) 16/5/2/8/1^	New course starting this academic year 2016-17
B.Sc.(H) Computer Science	(45) 23/7/3/12/1^	97 % (with PCM)
B.Sc.(H)Chemistry	(31) 16/5/2/8/1^	New course starting this academic year 2016-17
B.Sc.(H) Electronics	(45) 23/7/3/12/1^	95% PCM
B.Sc.(H) Food Technology	(45) 23/7/3/12/1^	95% PCM/PCB (whichever is higher)
B.Sc.(H)Instrumentation	(45) 23/7/3/12/1^	93% PCM
B.Sc.(H) Microbiology	(31) 16/5/2/8/1^	91% PCB
B.Sc.(H) Physics	(31) 16/5/2/8/1^	93% PCM
B.Sc.(H) Polymer Science	(45) 23/7/3/12/1^	94% PCM
B.Sc.(H)Zoology	(31) 16/5/2/8/1^	New course starting this academic year 2016-17

** Subject to any change as per guidelines of University of Delhi as and when received

*Reservations is as per rules of the University of Delhi

^ PH seat in each course is supernumerary

RTI & Staff Council Committees

Appellate Authority	Dr. Balaram Pani (Principal)
Vice-Principal	Dr. Shalini Sehgal
Public Information Officer	Mr. Bhavyadeep
Assistant Public Information Officer	Sh. Santhanam Iyengar

Conveners of Few Staff Council Committees	
1. Academic	Dr. Anil K. Bali
2. Admission	Dr. Amit Kumar
3. Alumni Association	Dr. Manoj Khanna
4. Anti Ragging	Dr. Madhulika Bajpai
5. Anti Discriminatory Cell	Dr. N. S. Abbas
6. Bhaskaracharya Cell	Dr. Vandana Batra
7. Canteen Committee	Dr. Shivani Varmani
8. Career Counselling Cell	Dr. Inderbir Kaur
9. Core Committee Student Counselling System	Dr. Shalini Sehgal
10. Equal Opportunity Cell	Dr. Vijay Kumar Nalla
11. Extra- Curricular Activity(ECA)	Dr. Sujata Bhardwaj
12. Gandhian Study Centre	Ms. Shweta Gupta
13. Garden	Dr. Eram S. Rao
14. Gender Sensitizing	Dr. Purnima Anand
15. Internal Complaint	Dr. Purnima Anand
16. Library	Dr. Ranjeet S. Thakur
17. Magazine	Dr. Sangeeta Srivastava
18. National Service Scheme(NSS)	Dr. Siddharth Sirohi
19. North East Cell	Dr. Meenakshi Garg
20. Proctorial	Dr. Vikas Tyagi
21. Prospectus	Ms. Shweta Gupta
22. SC/ST Cell	Dr. Jitender Kumar
23. Special Categories Admission Enabling	Dr. Jitender Kumar
24. Sports	Dr. Shalini Sehgal
25. Student Advisory and PR	Dr. Ruchi G. Marwah
26. Swacchata	Dr. Anita Sondhi
27. Time Table	Dr. Neeru Sharma
28. Training and Placement Cell	Dr. Siddharth Sirohi
29. Vivekanand Vichar Manch	Dr. Ranjeet S. Thakur
30. Website and Internet	Mr. Bhavyadeep
31. Women Development Cell	Dr. Vandita Gupta

Bursar	Dr. Avneesh Mittal
Section Officer (Administration)	Sh. Santhanam Iyengar
Section Officer (Accounts)	Mr. Rajiv Saini
Sr. P. A. to Principal	Ms. Ritu Sareen

Choice based credit system (CBCS)

Choice Based Credit System (CBCS) has been introduced based on the recommendations of University Grants Commission (UGC) to create uniformity in teaching in India. This credit based semester system provides flexibility in designing curriculum and assigning credits based on the course contents. In this system students are provided an opportunity to explore additional avenues of learning beyond the core subjects for their holistic development and choose inter-disciplinary, intra-disciplinary and skill based courses. Various types of papers offered in CBCS are as follows:

1. **Core Course:** These course papers are compulsory to be studied by a student of particular discipline. There are 14 core papers distributed in all the semesters of the course.
2. **Elective Course:** These courses can be chosen from a pool of courses which may be specific to the discipline/ subject of study or to some other discipline/subject or nurtures the candidate's proficiency/skill.
 - **Discipline Specific Elective (DSE):** A student has to complete 4 discipline specific elective papers during the course. Two papers each are offered in V and VI semesters.
 - **Generic Elective (GE):** Different generic elective papers will be offered to students by other Departments (disciplines) of the college and the student will have the option to choose one generic elective paper each in the first four semesters. The list of GE papers to be offered by the college in I semester of 2016-17 is as follows:

DEPARTMENT	PAPER
Biomedical Science	Concepts in Biotechnology
Chemistry	Atomic structure, Bonding, General organic Chemistry & Aliphatic Hydrocarbons
Computer Science	Introduction to Programming
Electronics	Practical Electronics
Food Technology	Food processing and preservation
Human Communication	General Psychology
Instrumentation	Sensors and Actuators
Mathematics	Calculus
Microbiology	Introduction and scope of Microbiology
Physics	Electricity and Magnetism
Polymer Science	Chemistry of Polymers

3. **Ability Enhancement Compulsory Courses:** These courses are mandatory for all disciplines. The student is supposed to take one in each semester of the first year.
4. **Skill Enhancement Courses:** These courses may be chosen from a pool of courses offered by the College which are designed to provide value-based and/or skill-based

knowledge. The students have to undertake two Skill Enhancement courses each in III and IV semester.

The number of courses in each semester to be studied by the student is mentioned in the table given below.

SYLLABUS STRUCTURE		
SEMESTER-I	SEMESTER-III	SEMESTER-V
<ul style="list-style-type: none"> • Core Courses-2 • Ability Enhancement Compulsory Courses-1 • Generic Elective Course-1 	<ul style="list-style-type: none"> • Core Courses-3 • Skill Enhancement Courses-1 • Generic Elective-1 	<ul style="list-style-type: none"> • Core Courses-2 • Discipline Specific Elective Course-2
SEMESTER-II	SEMESTER-IV	SEMESTER-VI
<ul style="list-style-type: none"> • Core Courses-2 • Ability Enhancement Compulsory Courses-1 • Generic Elective Course-1 	<ul style="list-style-type: none"> • Core Courses-3 • Skill Enhancement Courses-1 • Generic Elective-1 	<ul style="list-style-type: none"> • Core Courses-2 • Discipline Specific Elective Course-2

Department of Biomedical Science

Faculty:

<i>Name</i>	<i>Qualification</i>	<i>Specialization</i>
Dr. Uma Chaudhry	Ph.D. (DU)	Medical Biotechnology
Dr. Shivani G. Varmani	Ph.D. (AIIMS)	Medical Biochemistry and Biotechnology
Dr. Uma Dhawan <i>(Teacher-In-Charge)</i>	Ph.D. (DU)	Human Genetics and Bioinformatics

B.Sc. (Hons.) Biomedical Science is an interdisciplinary three-year degree course offered by University of Delhi. The programme has been meticulously structured to cover a wide spectrum of subjects, including Human Physiology, Pathology, Immunology, Cell Biology, Human Genetics, Biochemistry, Medical Biotechnology, Biophysics, Microbiology, Computational Biology and Drug Discovery, Toxicology etc. Thus, provides a platform to students for their future endeavours in academics, research or in industry.

The theoretical classroom experiences are supplemented by well-designed laboratory practices. Besides lecturing and close interactions with the well qualified faculty, regular assignments, assessments, presentations, seminars and field studies form the mandates of the course. Concepts of peer learning and team spirits are emphasized and imbibed among the students. The hallmark of this course is the mentoring program, wherein each student is expected to work on a project under the supervision of a distinguished scientist in a reputed institution, hospital or in house faculty. The training not only gives an early exposure to the field of research, but also helps the student to gauge his or her research aptitude and attitude.

Ample learning and research opportunities are also provided to the faculty and students through innovation projects of the faculty and events organized under the aegis of Department of Biotechnology Star College Scheme.

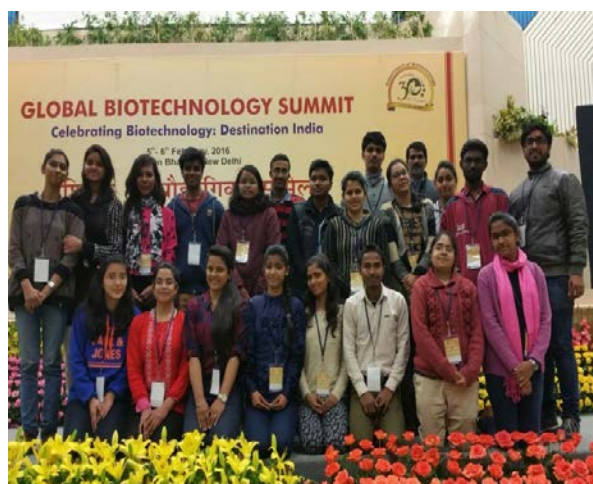
The first year of this course is designed to give a basic knowledge of the course followed by further step-wise specialized papers in subsequent years. Capacity building and manpower development is a formidable task, both from educational and infrastructural perspective. The Department has highly qualified faculty members devoted to make this difficult task easier.

The Biomedical Science laboratories of the college are well equipped with various sophisticated instruments including computer-based UV-Visible spectrophotometers, CO₂ incubator, digital viscometer, PCR machines, gel documentation systems, refrigerated high speed centrifuges, orbital shaker incubator, microtomes, UV transilluminator, microplate ELISA reader, digital colony counter, digital melting point apparatus, binocular microscopes with camera and projection system as well as other regular instruments including electronic balances, autoclave, colorimeters, vertical and horizontal electrophoresis units, electro-blotting system, laminar hood, magnetic stirrers, vortex shakers, ice flaking machine, ovens, etc.



Biomedical Science has its Departmental Society “DNAmics” which is a joint enterprise of students and teachers. The society has been formulated with an objective to abreast the students about the latest findings, developments and avenues in the field of Biomedical Science. Further it promotes academic, extra-curricular and socio- cultural linkages with peers in other colleges and institutions.

The society is actively involved in organizing various seminars for the students and faculty of the college. The students and faculty members are encouraged to take part in conferences, symposia, public lectures and seminars regularly to broaden their horizons. The society organized its Annual festival- ‘Genesis’ in April 2016. The event was comprised of enlightening lectures by Dr. Amulya Panda, Scientist, National Institute of Immunology, New Delhi and Dr. Avinash Bajaj, Associate Professor, Regional Centre for Biotechnology, Faridabad. The lectures were followed by students’ activities including Scientific Quiz, Rangoli (theme: Science in 2050) and Dizzy sports. Besides this, the Society had also organized two events- ‘Beg, Borrow and Steal’ and ‘Lotto-216’ during the Annual Inter College Cultural Festival “SRIJAN 2K16” on January 21, 2016. An invited lecture by Dr. Helen Collins, Vice-Dean for Postgraduate Study in the Faculty of Life Sciences & Medicine at Kings College, London on “The role of iron chelation in immune responses in chronic inflammation” was organized last year in the college.





Certificate course in Bioinformatics and in silico Drug Discovery

The Department of Biomedical Science of the college offers an add-on certificate course of ~128 hours in Bioinformatics and in silico Drug Discovery in collaboration with the Department of Biomedical Science, Acharya Narendra Dev College. Dr. Uma Dhawan of the department is the coordinator of this course from the college. The aim of the course is to suit the fast track needs of bioinformatics and in silico drug discovery divisions of pharmaceutical companies and research organizations. The course structure is formulated in consultation with the members of the course advisory committee consisting of eminent scientists from academia as well as industry. The classes for the course are held on Sundays and during vacations. This includes both lectures and hands-on sessions on biological databases, sequence and microarray analyses, phylogenetic analysis, Bayesian statistics, machine learning, molecular modeling and protein-drug docking.

SYLLABUS STRUCTURE					
SEMESTER-I		SEMESTER-III		SEMESTER-V	
C-1	BMS-101:Bioorganic Chemistry	C-5	BMS-301: Biochemistry	C-11	BMS-502:Biophysics
C-2	BMS-102:Cell and Radiation Biology	C-6	BMS-302:Human Physiology and Anatomy II	C-12	BMS-502: Pharmacology
AECC-1	English/MIL communication/ Environmental Science	C-7	BMS-303: Medical Microbiology	DSE-1	
GE-1		SEC-1 GE-3		DSE-2	
SEMESTER-II		SEMESTER-IV		SEMESTER-VI	
C-3	BMS-201:Principles of Genetics	C-8	BMS-401: Immunobiology	C-13	BMS-601: Human Pathology
C-4	BMS-202:Human Physiology and Anatomy I	C-9	BMS-402: Molecular Biology	C-14	BMS-602: Toxicology
AECC-2	English/MIL communications/ Environmental Science	C-10	BMS-403: Medicinal Chemistry	DSE-3	
GE-2		SEC-2 GE-4		DSE-4	

C: Core Courses; **GE:** Generic Elective (To be selected from papers offered by other Departments of the college); **AECC:** Ability Enhancement Compulsory Course; **SEC:** Skill Enhancement Courses and **DSE:** Discipline Specific Elective (To be selected from papers offered by the Department of Biomedical Science)

SKILL ENHANCEMENT AND DISCIPLINE SPECIFIC ELECTIVE PAPERS OFFERED BY DEPARTMENT OF BIOMEDICAL SCIENCE					
Skill Enhancement Papers			Discipline Specific Elective Papers		
BMS-S1	Methods in Epidemiological Data Analysis (EDA)		BMS A	Computational Biology and Drug Discovery	
BMS-S2	Medical Laboratory Diagnostics (MLD)		BMS B	Genome Organization and Function	
BMS-S3	Techniques for Forensic Science		BMS C	Human Genetics	
BMS-S4	Tools in Modern Biology		BMS D	Medical Biochemistry	
			BMS E	Medical Biotechnology	
			BMS F	Project Work (can be chosen only in semester VI)	

For more details regarding syllabus and scheme please refer to :

http://www.du.ac.in/du/uploads/Syllabus_2015/B.Sc.%20Hons.%20Bio-Medical%20Science.pdf

Department of Botany

Faculty:

<i>Name</i>	<i>Qualification</i>	<i>Specialization</i>
Dr. N. S. Abbas	Ph.D. (DU)	Plant Biotechnology
Dr. Sujata Bhardwaj	Ph.D. (MDU)	Ethnobotany And Ecology

Botany is the scientific study of plants. Botany is currently experiencing a golden age of research-driven discovery. Botany is one of the preferred choices to study among the science students in India. Botany focuses on the extensive scientific study of plants along with their structures, growth, use, and process of all forms of plant life-their evolution, ageing, decaying and death. Pollution and population explosion pose a severe threat to the environment. Plants have always provided food, clothing, and shelter to mankind. People who are fascinated towards nature and plants will enjoy a career in botany. Plants range from the smallest bacteria to the largest Sequoia tree. Considering the current scenario, various factors like population explosion, pollution and so on are affecting the flora. So Botany has become such a vast research enterprise that it is not generally studied as a single discipline, but as a number of clustered sub-disciplines. The multi-disciplinary initiative is significant for several reasons. So, apart from in-depth study of flora, a Botanist is also required to explore the possible way out of agricultural, horticulture and environment related issues. Thus, career in Botany can be highly rewarding for those, who are allured with the aesthetic beauty of nature and flora.

With the challenges posed by environmental issues on existing flora, the significance and scope of Botany has widened, than ever before. After successful completion of graduation in Botany, one can work as biological inspector, while a post graduate degree in the subject makes the person eligible to opt for a career in teaching or to take up research work in any prominent University. Besides, one can join any reputed organisation.

The requirement for botanists and people educated in related fields is growing. Botanists can find prospective jobs with: Ecological consulting companies ; Colleges, Universities and Plant Research Centres ; Pharmaceutical, food, seed and nursery, fruit growers, biological supply houses; plant explorers; ecologists; Conservationists; Taxonomist; Horticulturist; Genetists; Plant biochemist; Molecular biologist; Plant pathologist; Environmental consultant; Farming consultant; Museums operator; Biotechnologist; Sericulturist; Marine / freshwater biologist; Forest Service employee; Environmental impact specialist; Greenhouse technician; Agricultural Research Service; Botanical gardens and arboretums, such as the National Arboretum; Lumber and paper industries; Bio-technical regulatory agencies; National Park Service Employee; National forestry or conservation expert; Science columnist; R & D; Forensic science; Business and industry. Options are not only confined to India, numerous opportunities are also available abroad as well.

The Department of Botany has state of art laboratories with high end instruments. The required infrastructure for this course is adequate and in place. The laboratories are designed in such a manner that it is well illuminated and aerated.

The Department has one dedicated room with projector facility and two laboratories with latest instruments particularly Binocular microscope, B.O.D. incubator, PC-based UV-Vis-Spectrophotometer, Autoclave, Laminar flow, Refrigerated centrifuge, Growth chamber, ELISA reader, Digital blood cell counter, Digital haemoglobin reader, Digital blood analyser, pH-meter Electronic balance, Vortex shaker, Electrophoresis and U-V transilluminator, Ice Flaking machine Refrigerated Centrifuge Machine, Glucanometer, and Blood analyser.



SYLLABUS STRUCTURE					
SEMESTER-I		SEMESTER-III		SEMESTER-V	
CC-1**	Microbiology and Phycology	CC-5**	Anatomy of Angiosperms	CC-11**	Reproductive Biology of Angiosperms
CC-2**	Biomolecules and Cell Biology	CC-6**	Economic Botany	CC-12**	Plant Physiology
AECC-1^	English/MIL Communication /Environmental Science	CC-7**	Genetics	DSE-1#	
GE-1*		SEC-1# GE-3*		DSE-2#	
SEMESTER-II		SEMESTER-IV		SEMESTER-VI	
CC-3**	Mycology and Phytopathology	CC-8**	Molecular Biology	CC-13**	Plant Metabolism
CC-4**	Archegoniatae	CC-9**	Ecology	CC-14**	Plant Biotechnology
AECC-2^	English/MIL communication/ Environmental Science	CC-10**	Plant Systematics	DSE-3#	
GE-2*		SEC-2# GE-4*		DSE-4#	

****Core Course; ^Ability Enhancement Compulsory Course; *Generic Elective – To be selected from papers offered by other Departments of the college; #Skill Enhancement Course and Discipline Specific Elective Course – To be selected from papers/dissertation/project offered by the Department of Botany.**

SKILL ENHANCEMENT AND DISCIPLINE SPECIFIC ELECTIVE PAPERS OFFERED BY DEPARTMENT OF BOTANY			
Skill Enhancement Papers		Discipline Specific Elective Papers	
SEC-1	Any One a) Ethnobotany b) Intellectual Property Rights	DSE-1	Analytical Techniques in Plant Sciences
		DSE-2	Biostatistics
		DSE-3	Industrial and Environmental Microbiology
SEC-2	Any One a) Biofertilizers b) Medicinal Botany	DSE-4	Bioinformatics

For more details regarding syllabus and scheme please refer to:

[http://www.du.ac.in/du/uploads/Syllabus_2015/05082015_B.Sc.%20\(Honours\)_Botany%20Syllabus.pdf](http://www.du.ac.in/du/uploads/Syllabus_2015/05082015_B.Sc.%20(Honours)_Botany%20Syllabus.pdf)

Department of Chemistry

Faculty:

<i>Name</i>	<i>Qualification</i>	<i>Specialization</i>
Dr. Lalit Kapur (Teacher in-Charge)	Ph.D. (D.U.)	Inorganic Chemistry
Dr. Balaram Pani	Ph.D. (J.N.U.)	Inorganic Chemistry

One of the leading subjects in the pure sciences, chemistry offers the students an ideal platform to begin exploring the composition & structure of matter. From this academic session, the Department of Chemistry is going to offer full time course in B.Sc.(H) Chemistry for the first time. Along with this, the Department of Chemistry also offers General Elective and Environmental Science courses as well. The emphasis at the under-graduate level is to give a broad coverage of most common branches of Chemistry considering the interdisciplinary nature of the subject today. A bachelor's degree in Chemistry prepares the students to pursue career in academic and industrial research in the field of chemical sciences. A large number of institutes and universities (both in India and abroad) offer post-graduate and research based courses (full-time and short-term) in chemical sciences. After graduation, students have lucrative career options in Research & Development and can get positions in various industries such as pharmaceuticals, paints, cosmetics, petroleum, consultancies, wood & paper, textile, polymers, metallurgical and chemicals etc.

The two laboratories at the Department of Chemistry are spacious, well-ventilated and equipped with modern sophisticated instruments such as electronic and analytical balances, pH-meter, hot air oven, double distillation plant, vacuum pump, de-ionizer, spectrophotometer, muffle furnace, polarimeter, colorimeter, Digital potentiometer, digital melting & boiling point apparatus, conductivity meter and fuming hood chamber enable the students to carry out all the experiments as prescribed in the syllabus as well as some simple projects. Besides these, there is an instrumentation laboratory for carrying out experiments in physical chemistry and analytical techniques. Synthesis, titrations and chemical analysis are some of the aspects that form the basis of the practicals.



SYLLABUS STRUCTURE					
SEMESTER-I		SEMESTER-III		SEMESTER-V	
CC-1**	Inorganic Chemistry-I	CC-5**	Inorganic Chemistry-II	CC-11**	Organic Chemistry-IV
CC-2**	Physical Chemistry-I	CC-6**	Organic Chemistry-II	CC-12**	Physical Chemistry-V
AECC-1^	English communication/ Environmental Science	CC-7**	Physical Chemistry-III	DSE-1#	
GE-1*		SEC-1#		DSE-2#	
		GE-3*			
SEMESTER-II		SEMESTER-IV		SEMESTER-VI	
CC-3**	Organic Chemistry-I	CC-8**	Inorganic Chemistry-III	CC-13**	Inorganic Chemistry-IV
CC-4**	Physical Chemistry-II	CC-9**	Organic Chemistry-III	CC-14**	Organic Chemistry-V
AECC-2^	English communications/ Environmental Science	CC-10**	Physical Chemistry-IV	DSE-3#	
GE-2*		SEC-2#		DSE-4#	
		GE-4*			

**Core Course; ^Ability Enhancement Compulsory Course; *Generic Elective – To be selected from papers offered by other Departments of the college; #Skill Enhancement Course and Discipline Specific Elective Course – To be selected from papers offered by the Department of Chemistry.

SKILL ENHANCEMENT AND DISCIPLINE SPECIFIC ELECTIVE PAPERS OFFERED BY DEPARTMENT OF CHEMISTRY		
Skill Enhancement Papers		Discipline Specific Elective Papers
SEC-1	IT Skills for Chemists	DSE-1 a) Novel Inorganic Solids
SEC-2	Basic Analytical Chemistry	b) Inorganic Materials of Industrial Importance
SEC-3	Chemical Technology & Society	DSE-2-4 a) Applications of Computers in Chemistry
SEC-4	Chemoinformatics	b) Analytical Methods in Chemistry
SEC-5	Business Skills for Chemists	c) Molecular Modelling & Drug Design
SEC-6	Intellectual Property Rights	d) Polymer Chemistry
SEC-7	Analytical Clinical Biochemistry	e) Research Methodology for Chemistry
SEC-8	Green Methods in Chemistry	f) Green Chemistry
SEC-9	Pharmaceutical Chemistry	g) Industrial Chemicals & Environment
SEC-10	Chemistry of Cosmetics & Perfumes	h) Instrumental Methods of Analysis
SEC-11	Pesticide Chemistry	i) Dissertation
SEC-12	Fuel Chemistry	

For more details regarding syllabus and scheme please refer to:

http://du.ac.in/du/uploads/Syllabus_2015/B.Sc.%20Hons.%20Chemistry.pdf

Department of Computer Science

Faculty:

<i>Name</i>	<i>Qualification</i>	<i>Specialization</i>
Ms. Manu Kataria	MCA (HPU Simla)	Computer Applications
Mr. Bhavya Deep	M.Sc. (DAVV, Indore)	Computer Science
Ms. Amita Misra	MCA (HBTI Kanpur)	Computer Applications
Dr. Sangeeta Srivastava	Ph.D.(D.U.)	Software Engineering and Information Systems Development
Ms. Arti Dua <i>(Teacher-In-Charge)</i>	MCA(GGSIPU, Delhi)	Computer Applications

The Department of Computer Science of our college conducts B.Sc. (Hons.) Computer Science, a motivating and arduous course which equips students with strong logic and problem solving approach by emphasizing on a clear understanding of core computer science subjects and providing them practical experience in the laboratory associated with each of these subjects. Exposure of emerging technologies is provided to them from time to time in the form of workshops, seminars and invited talks by eminent personalities from these fields. With this strong theoretical and practical foundation in their undergraduate course, our students in the past have got selected for their Post Graduate courses in prestigious institutes. The Rapid development of technology has created job avenues for students of computer science in many fields. Students have excellent job opportunities in IT industry, software industry and information system department of any industry, manufacturing, marketing, banking, entertainment, education and various R&D institutions in government and private sector. In the preceding years, the students have been well placed in various companies such as Wipro, Infosys, Satyam, Dell, Tech Mahindra, TCS, and IGATE etc.

Over the years, the Department has evolved into a niche of excellence in academics, technology and other activities. The Department is spread over three spacious and air conditioned laboratories, networked to powerful servers. The Department has high quality equipment such as scanners, printers, projectors and CD/ DVD writers. The College provides 24 hours internet access to faculty and students through Wi-Fi network and e-Journal facility to encourage students in pursuing their research work. The Department has wide availability of open access computer facilities with the Wi-Fi network in the college. The Department provides the state of the art computing facilities with more than 120 multimedia computers of Pentium range with latest software platforms and high end software such as C++, Java, Visual Studio, SQL server, Ubuntu, etc.



The Department has its society CS.NET which keenly organizes workshops and seminars to give exposure to students about latest trends in technology. In the last academic year, the Department organized a seminar on “BIG Data and its Application” in September 2015 and two workshops on “Cloud Computing” in February 2016. In response to the call from the Hon’ble Prime Minister Narender Modi the Department actively participated in the cleanliness drive for “Swachh Bharat Abhiyan” and the “Digital India Initiative” organized in October 2015 in the college. In addition to the technical talks and workshops, the faculty of the Department is actively involved in publishing high quality research papers, Government funded research projects and designing the syllabus of undergraduate courses under committee of courses, Department of Computer Science, University of Delhi. The Department encourages students for software development related activities. The Departmental Society also holds annual inter college techno-cultural Departmental festival “Interface” every year.



SYLLABUS STRUCTURE					
SEMESTER-I		SEMESTER-III		SEMESTER-V	
CC-1**	Programming Fundamentals using C++	CC-5**	Data Structures	CC-11**	Internet Technologies
CC-2**	Computer System Architecture	CC-6**	Operating Systems	CC-12**	Theory of Computation
AECC-1^		CC-7**	Computer Networks	DSE-1 [#]	
GE-1*		SEC-1 [#]		DSE-2 [#]	
		GE-3*			
SEMESTER-II		SEMESTER-IV		SEMESTER-VI	
CC-3**	Programming in JAVA	CC-8**	Design and Analysis of Algorithms	CC-13**	Artificial Intelligence
CC-4**	Discrete Structures	CC-9**	Software Engineering	CC-14**	Computer Graphics
AECC-2^		CC-10**	Database Management Systems	DSE-3 [#]	
GE-2*		SEC-2 [#]		DSE-4 [#]	
		GE-4*			

****Core Course; ^Ability Enhancement Compulsory Course; *Generic Elective** – To be selected from papers offered by other Departments of the college; **[#]Skill Enhancement Course and Discipline Specific Elective Course** – To be selected from papers offered by the Department of Computer Science.

SKILL ENHANCEMENT AND DISCIPLINE SPECIFIC ELECTIVE PAPERS OFFERED BY DEPARTMENT OF COMPUTER SCIENCE					
Skill Enhancement Papers			Discipline Specific Elective Papers		
SEC-1	Android Programming		DSE-1	Any One	
SEC-2	PHP Programming			a) System Programming	
				b) Numerical Methods	
				c) Operational Research for Computer Science	
			DSE-2	Any One	
				a) Microprocessor	
				b) Modeling and Simulation	
				c) Advanced Algorithms	
			DSE-3	Any One	
				a) Machine Learning	
				b) Introduction to Data Sciences	
				c) Combinational Optimization	
			DSE-4	Any One	
				a) Digital Image Processing	
				b) Data Mining	
				c) Project work/ Dissertation	

For more details regarding syllabus and scheme please refer to:

http://du.ac.in/du/uploads/Syllabus_2015/B.Sc.%20Hon.%20Computer%20Science.pdf

Department of Electronics

Faculty:

<i>Name</i>	<i>Qualification</i>	<i>Specialization</i>
Dr. Manoj Kumar Khanna	Ph.D. (DU)	Microelectronics and VLSI designing
Dr. Geeta Mongia	Ph.D. (DU)	Optical Data Storage & Photovoltaic
Dr. Inderbir Kaur	Ph.D. (DU)	Amorphous Semiconductors
Dr. Avneesh Mittal	Ph.D. (DU)	Genetic Algorithm and Adaptive Controls
Dr. Manoj K. Tiwari	Ph.D. (DU)	Microwave Photonics
Ms. Shweta Gupta	M.Sc. (DU)	Electronics
Dr. Jitender Kumar <i>(Teacher-In-Charge)</i>	Ph.D. (DU)	Nano-Materials and devices (LED Solar Cell, Sensors)
Dr. Amit Kumar	Ph.D. (DU)	Electroluminescent Materials & Devices

A degree in B.Sc. (Honours) Electronics covers all the key knowledge areas required to become a successful Electronics professional. It equips students with broad foundation of the fundamentals of Electronics and associated subjects and provides students with skills which are required to design electrical, electronic, computer, automation and communication systems. It includes courses on Analog and Digital Electronics, Signals and Systems, Electrical Machines, Communication, Microprocessor and programming languages (C and C++). Practicals based on simulators like PSpice, Multisim, Qucs, MATLAB, SciLAB, etc. are also included in the curriculum. This degree provides comprehensive opportunities to the graduates to explore and attain the zenith of success in research & development, aerospace and defence electronics, design, testing, quality control, and project management. After graduation, students can also pursue higher studies in Electronics or Information technology from University of Delhi, Indian Institute of Technology, Jamia Millia University, Kurukshetra University, Devi Ahilya University, Banasthali Vidyapeeth University, etc. The students are also eligible to pursue MBA and MCA from various esteemed Universities.

The Electronics Laboratory is well equipped with latest state-of-the art instruments such as Cathode Ray Oscilloscopes (CRO) & Digital Storage Oscilloscopes (DSO) (100MHz), CRO demonstration kits, Pulse Generators, Function Generators, Power Meter, Analog and Digital I.C. tester, LCR Q-tester, 8085 and 8086 Microprocessor kits, Microcontroller trainer, Interfacing modules and cards, Universal Programmer, various communication modules experimental kits, LASER kits, Antenna trainer kits, PCB design kits, PCB design Unit, AVR Microcontroller and Arduino Kits etc. The Department also has well equipped computer laboratory with various simulation software installed to facilitate the students to gain expertise in IT skills



The Department has its society named ‘**SPARKS**’ which organizes various activities like Workshops/ Conferences/ lectures/ Industrial visits/ Seminars/ Technical Fest, etc. every year under the guidance of eminent personalities from the academia and industries. To promote the holistic development of students, many activities have been organized in the last academic year. The Department had organized a one day workshop on "**Emerging Technologies, Market Requirements & ITIL V3.0**" in collaboration with Milestone Achievers to familiarize students in Essential Technical Training Model – X, Y, Z vs x, x+, x+, 40:60& 80:20 model , Broadband technologies – Working relationship between Telecom, IT and Networking, Digital India model & its requirement and Live demonstration of Broadband Equipment. This workshop was interactive and students learnt to communicate and connect one *broadband technology to another through instruments*. Another workshop on "**AVR Microcontroller**" in collaboration with Excel Technologies was also organized in the College. It was about various tools, microprocessors and microcontrollers used in designing of an Embedded system and designing cycle. Hands-on session was also conducted in which students learnt to interface the real world with the microcontroller.



SYLLABUS STRUCTURE					
SEMESTER-I		SEMESTER-III		SEMESTER-V	
CC-1**	Basic Electronics and Network Analysis	CC-5**	Electronic Circuits	CC-11**	Microprocessors And Microcontrollers
CC-2**	Mathematics Foundation for Electronics	CC-6**	Digital Electronics and VHDL	CC-12**	Electromagnetics
AECC-1^	English/MIL communication/ Environmental Science	CC-7**	C Programming and Data Structures	DSE-1#	
GE-1*		SEC-1# GE-3*		DSE-2#	
SEMESTER-II		SEMESTER-IV		SEMESTER-VI	
CC-3**	Semiconductor Devices	CC-8**	Operational Amplifiers and Applications	CC-13**	Communication Electronics
CC-4**	Applied Physics	CC-9**	Signals and Systems	CC-14**	Photonics
AECC-2^	English/MIL communications/ Environmental Science	CC-10**	Electronic Instrumentation	DSE-3#	
GE-2*		SEC-2# GE-4*		DSE-4#	

****Core Course; ^Ability Enhancement Compulsory Course; *Generic Elective – To be selected from papers offered by other Departments of the college; #Skill Enhancement Course and Discipline Specific Elective Course – To be selected from papers offered by the Department of Electronics.**

SKILL ENHANCEMENT AND DISCIPLINE SPECIFIC ELECTIVE PAPERS OFFERED BY DEPARTMENT OF ELECTRONICS			
Skill Enhancement Papers		Discipline Specific Elective Papers	
SEC-1	Design and Fabrication of Printed Circuit Boards	DSE-1	Power Electronics
SEC-2	Robotics	DSE-2	Numerical Analysis
SEC-3	Mobile Applications Development	DSE-3	Modern Communication Systems
SEC-4	Internet and Java Programming	DSE-4	Semiconductor Fabrication and Characterization
SEC-5	Programming with LabVIEW	DSE-5	Electrical Machines
		DSE-6	Basic VLSI Design
		DSE-7	Digital Signal Processing
		DSE-8	Control Systems
		DSE-9	Computer Networks
		DSE-10	Embedded Systems
		DSE-11	Biomedical Instrumentation
		DSE-12	Transmission Lines, Antenna and Wave
		DSE-13	Propagation
		DSE-14	Dissertation

For more details regarding syllabus and scheme please refer to:

http://du.ac.in/du/uploads/Syllabus_2015/18082015_B.Sc.%20%28Hons.%29%20Electronic%20Science.pdf

Department of Food Technology

Faculty:

<i>Name</i>	<i>Qualification</i>	<i>Specialization</i>
Dr. Rizwana (<i>Teacher-In-Charge</i>)	Ph.D.(J. Hamdard)	Food Safety, Food Processing & Technology of Animal Foods
Dr. Vandita Gupta	Ph.D.(DU)	Food Science & Nutrition
Dr. Shalini Sehgal	Ph.D. (NDRI,Karnal)	Food Microbiology & Food Safety
Dr. Eram Shahid Rao	Ph.D. (B.K.U,Bhopal)	Food Science & Nutrition, Food Quality Management & Sensory Science
Dr. Meenakshi Garg	Ph.D.(CCSHAU,Hisar)	Food Processing & Packaging

The Department of Food Technology conducts B.Sc. (Hons) Food Technology degree. Food Technology Department has been awarded with ***STAR DEPARTMENT STATUS*** in the year 2013 by Department of Biotechnology, Government of India. The importance of Food Technology lies in the fact that it has the capability to provide food to our population through scientific conservations, eliminating available losses and making available more balanced and nutritious food. Food processing has been identified as the sunrise industry due to its enormous impact and significance in the Indian development sector. Recognizing the potential in this sector the college has started the Food Technology course which is very well recognized by the modern industrial world and deals with every aspect of food processing and technology incorporating a number of subjects Food Chemistry, Food Safety, Food Microbiology, Food Engineering, Food Packaging, Food Quality and Technology of Plant and Animal Food. The course offers educational tours, seminars and industrial training. There are lots of job avenues for students of Food Technology. Students have excellent job opportunities in Government and private sector, industries and in multinational companies. In the preceding years the students have been well placed in various companies such as Intertek, IARI. Evalve Serve, FSSAI, Haldiram, Midas Foods India Pvt. Ltd., Britannia Industries Ltd., Packaging consultant, GSK, Dabur etc.

The Department has well equipped Food Technology laboratories which has sophisticated equipments such as Automatic Nitrogen analyzer, Brookfield's viscometer, UV-Vis spectrophotometer, Laminar air flow. Besides this Department has a pilot plant which aims at providing practical experience to the students. It is well equipped with a canning unit, bakery unit, MAP, milk processing plant, FFS, sieve shaker, Lovibond Tintometer, Rotary vacuum evaporator, , Fume hood chamber and drying oven etc. The Department also has research room which includes high end equipments like gas chromatography, Texture analyzer, water activity meter etc.



The Food Technology Department has its Society “AMBROSIA” which organizes talks, seminars and workshops to provide practical hands on experience on emerging technologies. The society also gives the students a chance to showcase their abilities and talents .Ambrosia, organized a ‘Salad preparation’ and ‘Muffin decoration’ competition as part of ‘Srijan-2016’ celebration. Students enthusiastically participated in both the events. Students of Food Technology undertook an 8-day bakery workshop conducted by Assocom Institute of Bakery Technology in collaboration with National Skill Development Corporation of the Government of India. This workshop was a part of PMKVY (Pradhan Mantri Kaushal Vikas Yojna). In this, the students learnt science, technology as well as the art of making various products like bread, cakes, doughnuts, cookies, muffins and dressing them as well. At the end of the workshop, a test was conducted through which students got the status of Craft Baker. This workshop will prove helpful in doing one’s own start-up as well as serve as an important part during job recruitment.

The Department of Food Technology has also organized Better Process Control School in collaboration with USFDA. Currently our college is the only institute conducting such course in India and neighbouring countries. CII conducted a first level training program for the student volunteers of Street Food Vendor under Surakshit Khadya Abhiyan in February 2016. Students also attended 2nd National Conference on Plastics Packaging– the Sustainable Choice in January, 2016 at FICCI, New Delhi.



SYLLABUS STRUCTURE					
SEMESTER-I		SEMESTER-III		SEMESTER-V	
CC-1**	Fundamentals of Food Technology	CC-5**	Food and Nutrition	CC-11**	Food Engineering
CC-2**	Principles of Food Science	CC-6**	Technology of Fruit, Vegetable and Plantation crops	CC-12**	Food Chemistry -I
AECC-1^	English Communication	CC-7**	Technology of Dairy and Sea Foods	DSE-1#	
GE-1*		SEC-1#		DSE-2#	
		GE-3*			
SEMESTER-II		SEMESTER-IV		SEMESTER-VI	
CC-3**	Technology of Food Preservation	CC-8**	Technology of Cereal, Pulses and Oilseeds	CC-13**	Food Chemistry-II
CC-4**	Food Processing Technology	CC-9**	Food Microbiology	CC-14**	Food Quality and Sensory valuation
AECC-2^	Environmental Science	CC-10**	Technology of Meat, Poultry and Egg	DSE-3#	
GE-2*		SEC-2#		DSE-4#	
		GE-4*			

****Core Course; ^Ability Enhancement Compulsory Course; *Generic Elective** – To be selected from papers offered by other Departments of the college; **#Skill Enhancement Course and Discipline Specific Elective Course** – To be selected from papers offered by the Department of Food Technology.

SKILL ENHANCEMENT AND DISCIPLINE SPECIFIC ELECTIVE PAPERS OFFERED BY DEPARTMENT OF FOOD TECHNOLOGY					
Skill Enhancement Papers			Discipline Specific Elective Papers		
SEC-1	Entrepreneurship Development		DSE-1	Food Safety	
SEC-2	Food Product Development		DSE-2	Food Quality Management	
SEC-3	Food Fermentation Technology		DSE-3	Bakery Technology	
SEC-4	Confectionary Technology		DSE-4	Food Packaging	
SEC-5	Project and Technical Report		DSE-5	Nutraceutical and Functional Foods	
			DSE-6	Food Plant Sanitation	

For more details regarding syllabus and scheme please refer to:

http://www.du.ac.in/du/uploads/Administration/AC/10072015/Annexure/10072015_Annexure-83.pdf

Department of Instrumentation

Faculty:

<i>Name</i>	<i>Qualification</i>	<i>Specialization</i>
Dr. Avneesh Mittal <i>(Teacher-In-Charge)</i>	Ph.D. (DU)	Genetic Algorithm and Adaptive Controls

Instrumentation is a specialized field which deals with the science and technology of measurement. This field serves not only physical, chemical and biological sciences; but also all branches of engineering and medicine. Instruments are being used in every area whether it is Medical, Industrial, Research & Development. Advance instruments lead to advance research and give better understanding of any field. Our College is the only co-educational college of the University of Delhi, offering a Bachelor of Science (Honors) course in Instrumentation. This course imparts knowledge and prepares skilled manpower who can design, develop, use and maintain various advance instruments and offers bright career prospects. The students are also eligible for pursuing M.Sc Instrumentation, M.Sc Electronics, MCA, MBA from various universities across India. Students from 2015 batch secured placements in companies like Wipro, TCS, Sunpharma etc through Central Placement Cell.

The Department has specialized Instrumentation Laboratories which provide practical expertise to the students and train them to design, develop, maintain and troubleshoot instruments that are being used in varied fields like Automation and Control, Process Industries, Medicine, Quality Control, etc. The Laboratories are well equipped with state of the art instruments like NI ELVIS-II Educational Laboratory Virtual Instrumentation Suite supported by LabVIEW full development system from National Instruments and NI USB Data Acquisition Card, to help students interface and integrate real time signals and software to simulate electronic circuits and designs. The Department acquaints students with devices used in Process and Control industries like ratio control trainer, differential pressure transmitter, circular chart recorder, dead weight tester, various flow meters such as electromagnetic, orifice meter, ultrasonic etc. It has advanced transducer and instrumentation trainer, temperature transducers, LVDT and strain gauge trainer, speed control of DC motor etc. Students learn to design and develop projects on high performance microcontroller and microprocessor kits which are provided with interfacing modules like Temperature Controller, Keyboard, Elevator Simulator Interface, Stepper Motor etc. The Instrumentation Laboratory also boasts of training students in sophisticated biomedical and analytical Instruments like Microprocessors based UV-VIS Spectrophotometer, 3 to 6 Channel Electrocardiograph, Heart Rate Monitor-cum-ECG trainer, Respiration Rate Monitor etc.



The Instrumentation Department Society “**Sensors**” has been organizing various academic activities outside the classroom, to support the complete development of students. Various activities were organized in the last academic year. An Expert Lecture series was organized in which lecture on “Build your own Smart Device using Raspberry Pi” was given by Dr. S. Ramanarayana Reddy, The Head, Department of Computer Science Engineering, Indira Gandhi Delhi Technical University for Women, Delhi and lecture on “Recent Advances in Sensor Technologies for Better Health Care” was given by Prof. V.R. Singh, Director, PDM Educational Institutions. An Industrial visit for students was organized to “Shriram Institute for Industrial Research” to give live exposure and demonstration of sophisticated instruments like Atomic Absorption Spectroscopy (AAS), Glass Viscometer, Dead Weight Tester, Torque Wrench Calibration System and Digital Tachometer. An Educational visit was also organized to University Science Instrumentation Centre (USIC) to provide industrial exposure on various high end Analytical Instruments like Nuclear Magnetic Resonance (NMR), Mass Spectroscopy, Infrared Spectroscopy, Thermo-Gravimetric Analysis (TGA) and Differential Scanning Calorimeter (DSC). An Inter-College Quiz Competition “Brain War” was also organized during College Annual Cultural Festival ‘Srijan 2K16’ in which students from different Colleges participated and won exciting prizes.



SYLLABUS STRUCTURE					
SEMESTER-I		SEMESTER-III		SEMESTER-V	
CC-I **	Basic Circuit Theory and Network Analysis	CC-V **	Biomedical Instrumentation	CC-XI**	Measurement Technology
CC-II **	Applied Physics	CC-VI **	Digital Electronics and VHDL	CC-XII**	Microprocessor
AECC-1^	English/MIL communication/ Environmental Science	CC-VII **	Engineering Mathematics	DSE-1#	
GE-1*		SEC-1#		DSE-2#	
		GE-3*			
SEMESTER-II		SEMESTER-IV		SEMESTER-VI	
CC-III **	Analog Devices and Circuits	CC-VIII **	Operational Amplifiers and Applications	CC-XIII**	Power Electronics
CC-IV **	Transducers and Sensors	CC-IX **	Analytical Instrumentation	CC-XIV**	Control Systems
AECC-2^	English/MIL communication/ Environmental Science	CC-X **	Electronic Instrumentation	DSE-3#	
GE-2*		SEC-2#		DSE-4#	
		GE-4*			

****Core Courses; ^Ability Enhancement Compulsory Course; *Generic Elective – To be selected from papers offered by other Departments of the college; #Skill Enhancement Course and Discipline Specific Elective Course – To be selected from papers offered by the Department of Instrumentation.**

SKILL ENHANCEMENT AND DISCIPLINE SPECIFIC ELECTIVE PAPERS OFFERED BY DEPARTMENT OF INSTRUMENTATION			
Skill Enhancement Papers		Discipline Specific Elective Papers	
SEC-1	Programming in C	DSE-1	Concepts of Chemistry
SEC-2	VLSI Design and Verification	DSE-2	Signal and Systems
SEC-3	Testing and Calibration	DSE-3	Adv. Analytical Instrumentation
SEC-4	PLC and SCADA	DSE-4	Communication System
SEC-5	Virtual Instrumentation	DSE-5	Adv. Biomedical Instrumentation
SEC-6	Programming using MATLAB	DSE-6	Embedded System and Robotics
		DSE-7	Process Control Dynamics
		DSE-8	Reliability & Quality Control Tech.
		DSE-9	Dissertation

For more details regarding syllabus and scheme please refer to:

[http://du.ac.in/du/uploads/Syllabus_2015/18082015_B.Sc.%20\(Hons.\)%20Instrumentation.pdf](http://du.ac.in/du/uploads/Syllabus_2015/18082015_B.Sc.%20(Hons.)%20Instrumentation.pdf)

Department of Microbiology

Faculty:

<i>Name</i>	<i>Qualification</i>	<i>Specialization</i>
Dr. N. Vijay Kumar	Ph.D. (JNU)	Molecular Biology
Dr. Purnima Anand	Ph.D. (DU)	Environmental Microbiology
Dr. Ruchi Gulati Marwah	Ph.D. (DU)	Industrial Microbiology
Dr. Pawas Goswami <i>(Teacher-In-Charge)</i>	Ph.D. (NDRI)	Dairy Microbiology

Louis Pasteur once said, “Never Underestimate the Power of the Microbes”. Microbiology is one of the most dynamic areas of biological sciences, as microbes are evolutionary and ecological pioneers and have immense socio-economic importance in our day to day life. These miniscule organisms play an indispensable and vital role in research in all areas of basic and applied sciences. It is an exceptionally broad discipline encompassing and integrating areas as diverse as Biochemistry, Cell Biology, Genetics, Molecular Biology, Environment, Agriculture, Taxonomy, Bioinformatics and Biotechnology.

The course curriculum provides a balanced introduction to basic, applied and advanced aspects of Microbiology and allied fields. Microbiologists are employed in variety of industries ranging from Food, Dairy, Pharmaceuticals, Chemicals to Hospitality industry. The students are acquainted with the knowledge about all major groups of microorganisms and their influence and application in our daily lives and how their potential can be harnessed for the betterment of the human life.

The Department of Microbiology of our college has well equipped and furnished laboratories to provide hands-on-training to our undergraduate students. The laboratories are equipped with state-of-the-art equipments such as Biological Safety Cabinets, Monocular and Binocular Microscopes, Trinocular Microscope, Spectrophotometers, Thermal Cycler (PCR), UV-visible double beam Spectrophotometer, Autoclaves, Incubators, Centrifuges, Shaker incubators, Electrophoresis set up, High precision electronic balances, pH analyzers, cooling centrifuge, cooling cabinet, Reverse Osmosis water purifier (large scale), Gel Documentation System, Ice-flaking Machine, Hybridization oven, Mini Spinner, dry heating block, Auto pipettes etc. to carry out various microbiological, biochemical and biotechnological experiments. The Department is also a member of The Star College Scheme of DBT and receives sufficient funds from time to time for equipment and other recurring facilities.



The Department of Microbiology has a society named “SUKSHMJEEV” which organizes a variety of academic and co-curricular activities in the form conferences, seminars and lectures etc. for the holistic development of our students. Sukshmjeev provides a platform for interaction amongst students, faculty members and various academicians invited from renowned institutions. With the aim of keeping the students up to date with the recent ongoing trends in the field of Microbiology, a symposium on the theme antimicrobial resistance titled "Antibiotic Resistance: A Major Global Threat" was organized by the Department. A special issue of the Departmental magazine “Life Under Lens” which includes various scientific articles written by our own students was also released during the symposium. To give students an idea about real life working conditions in industry or research in institutes, visits to various industries and institutions are conducted. Students from the Department visited Technology Based Incubator (TBI), UDSC this year. Apart from conducting routine experiments in curriculum, Department of Microbiology strategically organizes various workshops to provide hands on training to students in relevant field of study. Selected students from the Department are provided with the opportunity to work in small research projects under the Innovation and Star College Scheme categories of Delhi University and DBT respectively.

In addition to academic activities, the Department organizes its annual fest “Microquest”, which includes fun activities like collage making, streak art etc. Students enjoy in partly informal environment of the fest. Students of the Department are also encouraged to participate in sports and NSS activities.



SYLLABUS STRUCTURE					
SEMESTER-I		SEMESTER-III		SEMESTER-V	
C-1**	Introduction to Microbiology and Microbial Diversity	C-5**	Microbial Physiology and Metabolism	C-11**	Industrial Microbiology
C-2**	Bacteriology	C-6**	Cell Biology	C-12**	Immunology
AEC-1^	English Communication	C-7**	Molecular Biology	DSE-1#	
GE-1*		SEC-1#	Microbial Quality Control in Food and Pharmaceutical Industries	DSE-2#	
		GE-3*			
SEMESTER-II		SEMESTER-IV		SEMESTER-VI	
C-3**	Biochemistry	C-8**	Microbial Genetics and Genomics	C-13**	Medical Microbiology
C-4**	Virology	C-9**	Environmental Microbiology	C-14**	Recombinant DNA Technology
AEC-2^	Environmental Science	C-10**	Food and Dairy Microbiology	DSE-3#	
GE-2*		SEC-2#		DSE-4#	
		GE-4*			

****Core Course; ^Ability Enhancement Compulsory Course; *Generic Elective** – To be selected from papers offered by other Departments of the college; **#Skill Enhancement Course and Discipline Specific Elective Course** – To be selected from papers offered by the Department of Microbiology.

SKILL ENHANCEMENT AND DISCIPLINE SPECIFIC ELECTIVE PAPERS OFFERED BY DEPARTMENT OF MICROBIOLOGY					
Skill Enhancement Papers			Discipline Specific Elective Papers		
SEC-1	Microbial Quality Control in Food and Pharmaceutical Industries		DSE-1	Bioinformatics	
SEC-2	Microbial Diagnosis in Health Clinics		DSE-2	Plant Pathology	
SEC-3	Biofertilizers and Biopesticides		DSE-3	Inheritance Biology	
SEC-4	Food Fermentation Techniques		DSE-4	Biomathematics and Biostatistics	
SEC-5	Management of Human Microbial Diseases		DSE-5	Microbial Biotechnology	
SEC-6	Microbiological Analysis of Air and Water		DSE-6	Advances in Microbiology	
SEC-7	Fundamentals of Bioinformatics		DSE-7	Instrumentation and Biotechniques	
			DSE-8	Biosafety and Intellectual Property Rights (IPR)	
			DSE-9	Project Work	

For more details regarding syllabus and scheme please refer to:

http://www.du.ac.in/du/uploads/Administration/AC/10072015/Annexure/10072015_Annexure-92.pdf

Department of Physics

Faculty:

<i>Name</i>	<i>Qualification</i>	<i>Specialization</i>
Dr. Anand Bharadvaja (Teacher-In-Charge)	Ph.D. (D.U.)	Atomic Physics
Dr. Vandana Batra	Ph.D. (D.U.)	Cosmic Rays
Dr. Meetu Luthra	Ph.D. (D.U.)	Cosmology
Dr. Partha S. Pal	Ph.D. (D.U.)	Computational Physics
Mr. Vikas Tyagi	M.Sc. (D.U.)	Quantum Field theory
Mr. Sandeep Kumar (on leave)	M.Tech. (IIT Roorkee)	Solid State Materials
Mr. Ramesh Kumar (on leave)	M.Tech. (IIT Delhi)	Optoelectronics

Physics is one of the most sought- after academic disciplines. A degree in B.Sc. (H) Physics enables a graduate student to explain how the universe works –from the smallest sub-atomic particle to the largest galaxies. Needless to say, that the understanding of the physical phenomena has led to development of new technologies and new ideas. It intends to provide a broad-based education at undergraduate level to facilitate an early induction to global research scenario. The program is interdisciplinary with necessary flexibility to provide an overview of the entire gamut of important and recent scientific developments. The curriculum encompasses theoretical, experimental and computational aspects of Physics education.

The curriculum provides a thorough understanding of fundamentals subjects in order to enable students to cope with the challenges of modern research. The exposure to Physics and inter disciplinary undergraduate level research is to be provided through a plethora of departmental and non-departmental optional subjects pitched at the appropriate level and also by involving students to innovation projects through departmental and inter-departmental projects.

There are many options for Physics graduates. **In order to be eligible for doing Masters in Physics, one must study during graduation two Mathematics papers and for a teaching career in schools one has to study two different Science papers along with the Physics hon. papers. These papers (Mathematics and different Science papers) can be chosen from General Elective papers offered to students.** The graduated students are eligible for M.Sc. offered by University of Delhi and other reputed Universities of India; Integrated M.Sc.-Ph.D. programmes from institutes like Indian Institutes of Science Education and Research (IISERS), Indian Institute of Sciences (Bengaluru), Indian Institute of Technology. In addition to career in Physics, the students can also pursue fields like computer science, management, civil services, etc.

The laboratories are equipped with latest and sophisticated equipment required to give the experimental exposure. Some of the key equipment include Digital Storage Oscilloscope, Spectrometers (10 sec least count), Laser Kits, Universal Interferometer, Ultrasonic Grating Experimental Kit with CCD Camera, Four- Probe set up with USB interface, P-E Hysteresis Kit etc. We have introduced both quantitative (problem-oriented) and qualitative (motivational in nature) approach to experiments in our laboratories.

The graduated students from our college are doing exceeding well in higher education and professional areas. Our students get selected in IISER Pune, IISER Mohali, IISER Bhopal and IISER Bengaluru. Some of our students are pursuing their M.Sc. and Ph.D. from University of Delhi, IIT Delhi, Punjab University and Amity University.



The Physics Society “**QUBIT**” organizes annual Physics fest “*Z-gravity*” in which eminent academicians interacts with the students to keep them abreast with the latest developments in different areas of Physics. This year, the Physics Society organized “**Quiz Gravity**” for students on January 22, 2016 in college festival SRIJAN 2016.



SYLLABUS STRUCTURE					
SEMESTER-I		SEMESTER-III		SEMESTER-V	
CC-1**	Mathematical Physics-I	CC-5**	Mathematical Physics-II	CC-11**	Quantum Mechanics and Applications
CC-2**	Mechanics	CC-6**	Thermal Physics	CC-12**	Solid State Physics
AECC-1^	English Communication	CC-7**	Digital Systems and Applications	DSE-1#	
GE-1*		SEC-1#		DSE-2#	
		GE-3*			
SEMESTER-II		SEMESTER-IV		SEMESTER-VI	
CC-3**	Electricity and Magnetism	CC-8**	Mathematical Physics-III	CC-13**	Electromagnetic Theory
CC-4**	Waves and optics	CC-9**	Elements of Modern Physics	CC-14**	Statistical Mechanics
AECC-2^	Environmental Science	CC-10**	Analog Systems and Applications	DSE-3#	
GE-2*		SEC-2#		DSE-4#	
		GE-4*			

****Core Courses;** ^**Ability Enhancement Compulsory Course;** ***Generic Elective** – To be selected from papers offered by other Departments of the college; #**Skill Enhancement Course and Discipline Specific Elective Course** – To be selected from papers offered by the Department of Physics.

SKILL ENHANCEMENT AND DISCIPLINE SPECIFIC ELECTIVE PAPERS OFFERED BY DEPARTMENT OF PHYSICS			
Skill Enhancement Papers		Discipline Specific Elective Papers	
SEC-1	Physics Workshop Skills		Odd Semester (any 2)
SEC-2	Computational Physics Skills	DSE-1	Experimental Techniques
SEC-3	Electrical circuits and Network Skills	DSE-2	Advanced Mathematical Physics
SEC-4	Basic Instrumentation Skills	DSE-3	Embedded systems- Introduction to microcontroller
SEC-5	Renewable Energy and Energy harvesting	DSE-4	Nuclear and Particle Physics
SEC-6	Technical Drawing	DSE-5	Physics of Devices and Communication
SEC-7	Radiation Safety	DSE-6	Astronomy and Astrophysics
SEC-8	Applied Optics	DSE-7	Atmospheric Physics
SEC-9	Weather Forecasting	DSE-8	Biological Physics
			Even Semester (any 2)
		DSE-9	Advanced Mathematical Physics-II
		DSE-10	Communication System
		DSE-11	Applied Dynamics
		DSE-12	Verilog and FPGA based system design
		DSE-13	Classical Dynamics
		DSE-14	Digital Signal Processing
		DSE-15	Nano Materials and Applications
		DSE-16	Physics of the Earth
		DSE-17	Medical Physics
		DSE-18	Dissertation

For more details regarding syllabus and scheme please refer to:

http://du.ac.in/du/uploads/Syllabus_2015/BSc-Hons-Physics.pdf

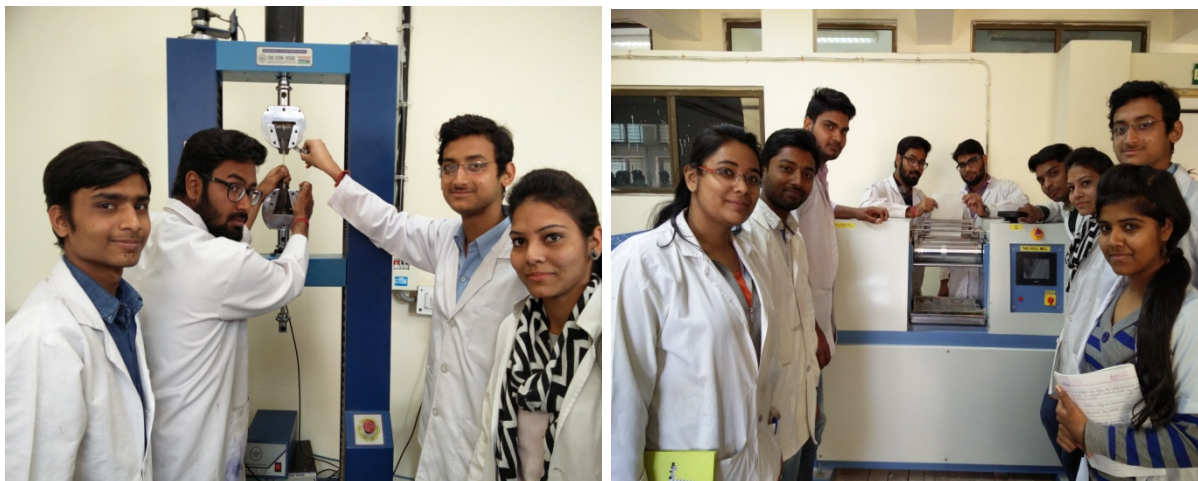
Department of Polymer Science

Faculty:

<i>Name</i>	<i>Qualification</i>	<i>Specialization</i>
Dr. S.K. Shukla	Ph.D.(Gorakhpur Univ.)	Polymer Characterization
Dr. Sidhharth Sirohi	Ph.D. (IIT Delhi)	Controlled Polymerization, Composite Nanofibres
Dr. Susmita Dey Sadhu <i>(Teacher-In-Charge)</i>	Ph.D.(IIT Kharagpur)	Rubber Technology

Nearly three quarters of materials used in our modern society are made of polymers. The field of polymer science is fascinating, highly dynamic and interdisciplinary. BCAS is the only college of University of Delhi which offers B.Sc. (H) Polymer Science. This program intends to impart basic knowhow of Polymer Science, Engineering and Technology. Flexibility in the program particularly third semester onwards, not only allows students to undertake courses in related disciplines (chemistry, physics, mathematics, computer & psychology in GE papers) but also provides an opportunity to take additional practical knowledge through applied courses (SEC papers). The program has ample scope for interaction with industry through research work in all years. After completion of the course, students can be placed in industry suitably through campus placement. In past various students have been placed in industries/organization in various capacities viz. Parag Pentachem and Pluss Polymers, Premier Polyfims Ltd. RMG Vinyl, Alert Polymer, Bony Polymer Pvt Ltd, Rapid Code Pvt. Ltd., IOCL Panipat, Oce Printing System (Canon subsidiary Company, Germany), Intellectual Property Office-Ministry of Commerce, IIT Delhi etc. The students are also eligible for pursuing M.Sc. program from various institutions like CIPET Ahmedabad, CIPET Chennai, CCS University, Meerut, MLS University, Gujarat University JMI Delhi, AMU Aligarh, Cochin University, North Maharashtra University, Kerala University, Mysore University & abroad also. (For more details visit: <http://polybcas.blogspot.in/>)*

The faculty is highly experienced and grooms the students to become technologically superior, academically competent and ethically strong. The Department's laboratories are well equipped with various latest and sophisticated instruments to meet the requirement of the experiments up to the mark of industrial standards and to train the students with synthesis, processing and testing of polymers. Apart from the syllabus experiments, students are also trained in handling, maintenance and trouble-shooting of various equipments available in the laboratories. A few of notable equipments are Injection Molding Machine, Compression Molding Machine, Two-Roll Mill, Single Screw Extruder, Universal Testing Machine, Impact Tester, MFI Tester, Flammability Tester, Heat Distortion Temperature, Vicat Softening Point Apparatus, Ubbelohde Viscometers with Temperature Controlled Bath, Abrasion Tester, Hardness Testers, Opacity Tester, Carbon Content Measuring Apparatus, UV-Vis spectrometer, FT-IR, Rheometer, Rota evaporator, Incubator, and Kjehldhal assembly etc.



Apart from attending class room lectures, students participate in various conferences, workshops, symposiums & industrial visits. Department of Polymer Science society (known as PEARLS) organizes popular lectures of eminent Professors and Scientists from various institutions to enhance awareness of students towards latest research and developments in the field of polymer science. Last year, an industrial visit to **U-Flex Industries Ltd.** (Noida, India) was organized for students. A popular lecture on “**Industrial Applications of Additives In Plastics**” by Dr. G. S. Jha (Senior Manager R&D, Supreme Industries, Pune) was organized in January 2016. Prof. Parbati Biswas (University of Delhi) delivered popular lecture on “**Basic Principles of Polymer Physics: Concepts and Challenges**” in March 2016. Besides these activities, a one day seminar on “**Polymer Processing, Modification and Characterization**” was also organized in January 2016 in which speakers from IIT Delhi, DRDO and Anton Paar delivered talks. A “**Tech. Quiz**” “**ABHIGYAN**” was organized during the annual college festival, **SRIJAN**. The visits to Tool Room and Training Centre(Wazirpur Industrial area, New Delhi) and P4 Expo on “**Plastics, Petrochemicals, Printability and Packaging**” at Greater Noida were also organized in February and April 2016 respectively. Polymer Science students also visited Nahata Plastics (Kirti Nagar, New Delhi) to update themselves about recycling of plastics.



SYLLABUS STRUCTURE					
SEMESTER-I		SEMESTER-III		SEMESTER-V	
C-101**	Introduction to Polymer Science	C-301**	Polymer Rheology	C-501**	Polymer Characterization
C-102**	Raw Material of Polymers	C-302**	Polymer Additives	C-502**	Specialty Polymers
AECC-1^	English/MIL communication/ Environmental Science	C-303**	Polymer Degradation	DSE-1#	
GE-1*		SEC-1#		DSE-2#	
		GE-3*			
SEMESTER-II		SEMESTER-IV		SEMESTER-VI	
C-201**	Polymer Technology	C-401**	Polymer Processing and Mold Design	C-601**	Polymer Blends and Composites
C-202**	Unit Operations	C-402**	Polymer Testing	C-602**	Fiber Science and Rubber Technology
AECC-2^	English/MIL communication/ Environmental Science	C-403**	Recycling and Waste Management	DSE-3#	
GE-2*		SEC-2#		DSE-4#	
		GE-4*			

****Core Courses;** ^**Ability Enhancement Compulsory Course;** ***Generic Elective** – To be selected from papers offered by other Departments of the college; #**Skill Enhancement Course and Discipline Specific Elective Course** – To be selected from papers offered by the Department of Polymer Science.

SKILL ENHANCEMENT AND DISCIPLINE SPECIFIC ELECTIVE PAPERS OFFERED BY DEPARTMENT OF POLYMER SCIENCE					
Skill Enhancement Papers			Discipline Specific Elective Papers		
SEC-1	Biopolymers		DSE-1	Conducting Polymer	
SEC-2	Estimation of Polymers and Polymeric Compounds		DSE-2	Fibre Manufacturing Technology	
SEC-3	Wire and Cable Technology		DSE-3	Paints, Coatings and adhesive	
SEC-4	Footwear Technology		DSE-4	Polymeric Nanomaterials	
			DSE-5	Tyre Technology	
			DSE-6	Packaging Technology	
			DSE-7	Fabrication of Polymeric products	
			DSE-8	Polymer in Biomedical Applications	

For more details regarding syllabus and scheme please refer to:

http://du.ac.in/du/uploads/Syllabus_2015/18072015BScHonsPolymerScience_Revised.pdf

Department of Biology (Zoology)

Faculty:

<i>Name</i>	<i>Qualification</i>	<i>Specialization</i>
Dr. Anil K. Bali (<i>Teacher-In-Charge</i>)	D.Phil.(University of Sussex, U.K.)	Zoology, Molecular Biology & Biotechnology

This is an era of Biological Sciences. Most of the discoveries and inventions in the last three decades which have direct implication in the improvement of human and domestic animal health belong to the field of Zoology. Most of the Nobel prizes given in the field of physiology or medicine and chemistry in the last two decades belong to the studies involving animals including Human being. So, we need a workforce to further consolidate the researches already carried out in the field of living organisms.

Zoology deals with all aspects of animals and its study is an exciting area where students deal with all types of animals which live on earth. University of Delhi has prepared the syllabi for B.Sc.(Hons) to give the holistic Knowledge of Zoology.

Students have better Job prospects after completing the course. They can pursue M.Sc.in various Biological Science courses (Zoology, Genetics, Biochemistry, Plant Molecular Biology and Biotechnology etc.) Students find jobs depending upon their abilities and performance in the field of medical Sciences, Industry (Biotechnology) , Forest Department, Academic and Research Institutes etc. in various capacities.

Department of Biology (Zoology) of our college has state of art laboratories with high end instruments. The Department has one dedicated room with projector facility and two laboratories with latest instruments particularly Binocular microscope, B.O.D. incubator, PC-based UV-VisSpectrophotometer, Autoclave, Laminar flow, Refrigerated centrifuge, Growth chamber, ELISA reader, Digital blood cell counter, Digital hemoglobin reader, Digital blood analyzer, pH-meter Electronic balance, Vortex shaker, Electrophoresis and U-V trans illuminator, Ice Flaking machine Refrigerated Centrifuge Machine, Glucometer, and Blood analyzer.



SYLLABUS STRUCTURE					
SEMESTER-I		SEMESTER-III		SEMESTER-V	
CC-1**	Diversity and Evolution of Non-Chordata(Protista to Psuedocoelomates) Perspective in Ecology English/ Environmental Science	CC-5**	Diversity and distribution of Chordata Physiology: controlling and coordinating system Comparative Anatomy of Vertebrates	CC-11**	Developmental Biology Molecular Biology
CC-2**		CC-6**		CC-12**	
AECC-1^		CC-7**		DSE-1 [#]	
GE-1*		SEC-1 [#] GE-3*		DSE-2 [#]	
SEMESTER-II		SEMESTER-IV		SEMESTER-VI	
CC-3**	Diversity and Evolution of Non-Chordata(Coelomate Non-Chordates) Physiology: Life sustaining systems English/ Environmental Science	CC-8**	Biochemistry of Metabolic Processes Cell Biology Principles of Genetics	CC-13**	Immunology Evolutionary Biology
CC-4**		CC-9**		CC-14**	
AECC-2^		CC-10**		DSE-3 [#]	
GE-2*		SEC-2 [#] GE-4*		DSE-4 [#]	

****Core Course; ^Ability Enhancement Compulsory Course; *Generic Elective** – To be selected from papers offered by other Departments of the college; **[#]Skill Enhancement Course and Discipline Specific Elective Course** – To be selected from papers offered by the Department of Zoology.

SKILL ENHANCEMENT AND DISCIPLINE SPECIFIC ELECTIVE PAPERS OFFERED BY DEPARTMENT OF ZOOLOGY			
Skill Enhancement Papers		Discipline Specific Elective Papers	
SEC-1	Apiculture	DSE-1	Animal Behavior and Chronobiology
SEC-2	Aquarium and Fish Keeping	DSE-2	Basics of Neuroscience
SEC-3	Medical Diagnostics	DSE-3	Animal Biotechnology
SEC-4	Research Methodology	DSE-4	Biology of Insects
SEC-5	Sericulture	DSE-5	Computational biology
		DSE-6	Parasitology
		DSE-7	Endocrinology
		DSE-8	Fish and Fisheries
		DSE-9	Immunology
		DSE-10	Reproductive Biology
		DSE-11	Wildlife conservation and Management

For more details regarding syllabus and scheme please refer to:

http://du.ac.in/du/uploads/Syllabus_2015/B.Sc.%20Hons.%20Zoology.pdf

Department of Biochemistry

Faculty:

<i>Name</i>	<i>Qualification</i>	<i>Specialization</i>
Dr. Anita Sondhi (Teacher-In-Charge)	Ph.D.(D.U.)	Medical Biochemistry

Biochemistry is a very interesting body of knowledge. It is an endeavour into a field which enriches the study of the human system. In the present century, the study of Biochemistry is greatly influencing other fields like Life Sciences, Food Sciences, Biotechnology, Applied Sciences, Biomedical Sciences, Bioinformatics (Computational Biology), Patent law and Intellectual Property Rights, Clinical Research and Diagnostics, Agriculture, Molecular Biology and Molecular Diagnostics. Recognizing its importance and potential, the Department has been nominated as one of the four Departments to receive funds under the Star College scheme of Government of India.

Ever since its inception two decades ago, the College has added tremendously to the infrastructure catering to the students of Biochemistry. The state-of-the-art Laboratory at the college is well equipped to take care of the needs of the students. It familiarizes the students with the latest and the most sophisticated equipments like Transilluminators, Spectrophotometers (UV-Visible and Visible), Electrophoresis apparatus (Vertical, Horizontal, Slab, Paper, Rod) Thin layer chromatography, Gel filtration chromatography, auto titrator and the use of equipment like Autoclave, Centrifuge, Laminar air flow chamber and pH meter.

The Department of Biochemistry also offers Generic Elective papers to inter and trans-disciplinary students.

For more details regarding syllabus and scheme please refer to:

http://du.ac.in/du/uploads/Syllabus_2015/B.Sc.%20Hons.%20Biochemistry.pdf



Department of Human Communication

Faculty:

Name	Qualification	Specialization
Dr. Madhulika Bajpai (Teacher-In-Charge)	Ph.D.(D.U.)	Psychology

“Like all science, psychology is knowledge; and like science again, it is knowledge of a definite thing, the mind” - James Mark Baldwin

Department of Human Communication offers different papers under the discipline of Psychology. As the above quote suggests, it is a study of human behavior and in the due course of learning, one tends to find more about oneself. The Department deals with these aspects of human interaction on individual, societal and very importantly organizational contexts. The Department has catered to various disciplines in the past with different subjects to make the students more confident, self-reliant and to be in a position to take on further challenges in life. To further help students achieve these goals; the Department follows the following objectives:

- The Department prepares the students for today’s ever-evolving world of communications and carving a professional niche for themselves. It has helped the alumni to score highly in the management tests and perform impressively in their foray into higher studies as well as professional careers.
- The emphasis is not only on the theoretical aspects, but also an effort is made to practically teach our students the nuances of business and managerial skills apart from psychological concepts to learn about human behavior.
- An emphasis is also made to ascertain students’ holistic growth especially in their capability to find their feet in the vocational world without losing themselves in the due process.

The Department currently offers general elective (GE) papers in Psychology for all the undergraduate students seeking admission under CBCS. This year GE-PSY-01: General Psychology is proposed as the general elective paper.

The motto of the Department can be summed up in the words of a very famous psychologist, William James, “Man can alter his life by altering his thinking”...

Department of Human Communication helps its students in initiating and facilitating this journey of self-discovery....

For more details regarding syllabus and scheme please refer to:

http://du.ac.in/du/uploads/Syllabus_2015/B.A.%20Hons.%20Psychology.pdf



Department of Mathematics

Faculty:

Name	Qualification	Specialization
Dr. Ragini Jindal	Ph.D.(C.C.S.U.)	Applied Mechanics
Dr. Neeru Sharma	Ph.D. (D.U.)	Functional Analysis

‘Mathematics rightly viewed, possesses not only truth, but supreme beauty’- Bertrand Russel
Mathematics is one of the most fundamental and basic courses whose knowledge is indispensable in almost every field. It is a fundamental part of human thought and logic, and integral to attempts at understanding the world and ourselves. Mathematical knowledge plays a crucial role in understanding other fields such as science, social sciences, and even music and art. Industry managers, engineers, and scientists require a personal repertory of mathematical tools to find solutions to a variety of work problems which are related to processing, research, analysis, and other operations that require mathematical solutions.

Mathematical methods are integral to the study of any field of sciences be it Physics, Computer Science, Electronics or Instrumentation. Progress in biomedical research increasingly requires mathematical and computational approaches. Scientists experienced at working at the interface of biology, mathematics and computation are greatly needed in this field. Polymer science has provided us with a diverse host of new materials, thereby enhancing technological advancement. The theoretical description of the properties of polymers has involved the use of a wide range of mathematical sciences techniques. The role of mathematics in food technology and microbiology is also immense. As an example, food processes, problems related to bacterial growth in food and other areas of predictive microbiology are studied using mathematical modelling techniques.

Thus, mathematics not only helps understand other courses, it also prepares the students for today’s ever evolving world of competition and carve a professional niche for them.

The Department of Mathematics offers General Elective papers in mathematics to all courses of the college. The Department room is equipped with desktop along with printer and scanner to aid teaching.

For more details regarding syllabus and scheme please refer to:

[http://du.ac.in/du/uploads/Syllabus_2015/Mathematics%20papers%20for%20students%20of%20B.Sc.%20\(H\)B.A.%20\(H\)%20&%20the%20than%20B.SC.%20\(H\)%20Mathematics.pdf](http://du.ac.in/du/uploads/Syllabus_2015/Mathematics%20papers%20for%20students%20of%20B.Sc.%20(H)B.A.%20(H)%20&%20the%20than%20B.SC.%20(H)%20Mathematics.pdf)



The library

Faculty:

<i>Name</i>	<i>Qualification</i>	<i>Specialization</i>
Dr. Ranjeet S. Thakur (<i>Librarian</i>)	Ph.D. (DU)	Academic and Media Libraries


The College Library was set up in 1995 with the mission to cater to the information needs of the students and the faculty. The library functions as an information resource centre for the college in achieving its aim. The library is housed in a spacious and well-lit three storied building called the library block. Reading Room, Reprography and Internet etc. are some of the facilities being provided by the library. It has a strong collection of nearly 24000 volumes of books including reference books, 336 bound volumes of journals and 491 CD-ROMs. Apart from the in-house collection, the library has full access to the thousands of journals online which are being subscribed to by the Central Reference Library (University of Delhi). The Library is also subscribing to N-LIST (National Library and Information Services Infrastructure of Scholarly Contents) Programme - (a collection of E-Resources under UGC-INFONET Digital Library Consortium)

Facilities of the Library include two spacious reading halls with adequate furniture, open access to the documents, air-conditioned internet section having 20 computers which provides internet facility for the students. The library has a Teachers' Lounge for more informal and relaxed reading. The college library is fully automated using latest hardware and software with OPAC (Open Public Access Catalogue) facility. The entire library block is under CCTV cameras surveillance. The library has its own intranet. In future, the library proposes to make the library block centrally air-conditioned and to install RFID, Web-OPAC and Biometrics technology.



Services and Facilities:

- Separate Reading Room facility for students and Staff members
- OPAC – Online Public Access Catalogue
- Air-Conditioned Internet Room freely available to the students and the faculty

- 
- Article Indexing Service – Bibliographical details of the journal articles are computerized and disseminated to the users on demand
 - Reprography
 - Open Access
 - Lending service and Reference Service
 - Newspaper Clippings

The library organizes orientation programmes and information literacy programme for the students.

The library also organizes, to cultivate reading habits amongst students, Book Exhibitions and Displays on a regular basis. Our library increases in size every year to accumulate the expanding horizons of knowledge for the students.

College Activities

The College has constituted various Committees and Cells which organize a wide variety of stimulating and energetic events and provides ample opportunities to students for developing their potential in varied disciplines.

Anti-Tobacco Cell

“Looking for motivation to quit smoking? Just look into the eyes of your loved ones and ask yourself if they deserve to die because of your second hand smoke.”

Smoking has many harmful effects on the human body, some of which are even incurable mainly to teenagers. The Anti - Tobacco Cell of the college is actively involved in organizing events to spread the awareness about ill effects of consuming/inhaling tobacco based products. In this regard students are encouraged to attend lecture on Anti -Tobacco awareness campaign. The Anti -Tobacco Cell has organized talk, Anti-Tobacco slogan writing competition & oath taking ceremony in the College last year.



Bhaskaracharya Cell



The Cell aims to create awareness and inculcate interest among students regarding works of Bhaskaracharya and great Indian scientists and contributors. The Cell celebrated Bhaskaracharya Day on January 18, 2016. Various activities such as power point presentation on Bhaskaracharya, screening of documentary - The Quantum Indians, Vedic mathematics workshop, Debate competitions, Sudoku solving competition and display of works related to Bhaskaracharya, etc. were organized.

Career Counselling Cell

The Career Counselling Cell has been set up in the college for the benefit of the students and to prepare them to face the upcoming challenges in their career. The cell helps the students chalk out academic roadmaps for themselves. The primary objective of this Cell is to provide the much needed life skills to students and help them to keep pace with the present stiff competition. This Cell undertakes several measures like organizing seminars and workshops on topics like communication skills, personality development, corporate culture/etiquette, leadership skills and also scope of higher education in various institutions within India and across the globe for the various science courses. These programs are conducted by distinguished personalities in the field.



Extra-Curricular Activities (ECA)

At our College, education is not mere learning of many facts and figures but is the training and igniting young minds to think beyond textual knowledge. The college in every academic year organizes wide variety of extracurricular activities, including fun filled fiesta **SRIJAN**, annual college cultural festival.

Last year, the ECA committee organized the Independence Day with different activities keeping patriotism as theme like Play, Group Dance, Group Song, Poems, and Rhythmic Yoga etc. The ECA committee along with its clubs organized its two day annual cultural fest –SRIJAN 2K16 in January 2016. The theme of Festival was - “Peace for One and All”.



The college was decorated in white flowers symbolizing peace. The fest was attended by more than 1500 students from various institutions, universities and colleges of Delhi in more than 20 different events. The highlights of the fest included events like street play, dance face-off, battle of bands, solo singing, mimicry, photography contest and turn- coat debate. Along with various events running all around in the college different Departments also organized events like Beg Borrow Steal, Brain War Quiz, Salad Dressing and many more that built up the festive mood. Sachin Gupta, music director/composer/singer along with his Sufi band was the star performer of the fest. There were also interesting fillers which included fashion show, dance performances and poem recitals by audience. Other popular events like duet karaoke, group dance, instrumental solo,

kavisammelan, face painting, collage making, anti-tobacco slogan writing competition also saw immense participation. The show concluded on a high note with DJ session. Our college organized “Songs of India” in collaboration with The Culture Council, University of Delhi In February, 2016. The “Songs of India” is an Inter-College Group Song competition with a difference wherein only non-film songs are selected from Patriotic/semi classical categories.

Equal Opportunity Cell



The main objective of Equal opportunity cell is to oversee the effective implementation of policies and programmes for disadvantaged groups, to provide guidance and counselling with respect to academic, financial, social and other matters and to enhance the diversity within the campus. E.O.C has various functions such as to ensure equity and equal opportunity to the community at large in the college and bring about social inclusion. It also ensures enhancing the diversity among the students, teaching and non-teaching staff population and at the same time eliminates the perception of discrimination. It helps to create a socially congenial atmosphere for academic interaction and for the growth

of healthy interpersonal relationships among the students coming from various social backgrounds. Equal Opportunity Cell helps individuals or a group of students belonging to the disadvantaged section of society to contain the problems related to discrimination. The cell in our college conducts various lectures and activities so as to encourage students to actively participate and know the importance of social equality.

National Service Scheme(NSS)

The best way to find yourself is to lose yourself in the service of others.

-Mahatma Gandhi

Keeping in view this beautiful quotation, NSS committee has been actively involved in many social service activities and believes that knowledge and energies of the students should be channelized for the services of the society. The NSS unit regularly organizes blood donation and medical check up camps in which a large number of volunteers take part. At present, NSS unit of the College is consisting of 89 volunteers who very enthusiastically participate in various social service activities like cleanliness drive, donation of



books, clothes, toys and other materials to the needy people, poster making competitions, best out of waste making competitions, slogan writing competition. Last year, NSS unit also participated in the 'Run for Unity' on October 31, 2015 on the occasion of 140th birth anniversary of Sardar Vallabhbhai Patel. The day is being celebrated as 'Rashtriya Ekta Diwas' (National Unity Day). Besides this, to create awareness and make people around us more conscious towards the environment, NSS in association with Eco Club had organized "Vedic Hawan" followed by plantation drive on the eve of Basant Panchmi in the College.

Placement Cell



Placement cell of the college look after training and placement of students. The cell coordinates with industries and organizations (R&D) to explore the employment opportunities and invites these organizations to the college campus for placements. The cell also works in tandem with central placement cell of University of Delhi for internship as well as placement. Last year, a pre-placement session of TCS, the largest software services company in India, was held in August 2015. The Ignite team of TCS

provides a free, web-based learning platform called "Open Ignite" which is the largest community of science graduates in the country. It helps the science students to launch their career by improving their chances of being employed. Arrangements were also made for faculty and students to watch the live telecast of the launch of the "start-up India program" by the Govt. of India.

Resonance: College Magazine

The College magazine 'Resonance' is published annually. The students pen their thoughts, share their views and hone their literary and other creative skills through Resonance. The magazine also showcases various activities undertaken through various committees, clubs, cells and departments which mirror the socio-cultural and contemporary issues of the society and their sensitivity towards the same. The students are involved through the entire process of designing the cover page, screening and editing the contributions for the magazine.



Sports

'A healthy mind dwells in a healthy body'.

This is true for today's youth for whom fitness is as important as academics. Our college has ten acres of land, which is being fruitfully utilized for the physical development of our



students through various outdoor and indoor facilities. There is a vast playground in the college campus comprising of one basketball court, volley ball court, cricket ground, football ground, lawn tennis court, two badminton court, table tennis room, gymnasium. Few students of the current outgoing batch participated in the Volleyball tournaments and football matches and won laurels to the College. Our college teams have participated in Football, Table- Tennis, Badminton, Volleyball, Basketball and

Cricket Inter-college tournaments organized by Delhi University Sports Council. Among 44 best cricket teams of different colleges of University of Delhi, our college cricket team was placed in top 10 position in the inter college cricket tournament last year. Friendly matches of Cricket and Volley-Ball were also organized between students and staff to promote off classroom interaction between students and the faculty. This year Kabaddi was introduced for the first time in the college. Sports day of the college was also celebrated in the month of February 2016. The events for the students in the athletics were Running, Long jump, Shot put and 4 X 200 m relay.

Swachhta Committee

Swachhta Committee is actively involved in the Swachh Bharat Mission initiated by government of India on October 2, 2014. Apart from monitoring regular activities related to cleanliness, committee conducts special cleanliness drives to make students aware and responsible for cleaning. Last year, Swachhta drives were conducted in various Departments of the College to commemorate Gandhi Jayanti and Swachhta Week in which the Departments carried out cleaning activities in their respective labs.

Besides this, this Committee organizes several events like group discussions, competitions, etc., throughout the year.



Vivekanand Vichar Manch



In order to propagate the philosophy of youth icon Swami Vivekananda, the Vivekananda Vichar Manch has been constituted. Several activities like lectures and poetry recitation by the distinguished personalities, competitions, etc., are organized every year. Last year, The Vivekanand Vichar Manch also celebrated National Youth Day on January 12,2016.

Women Development Cell

Women empowerment is needed to increase the spiritual, social, political and economic strength of women. This leads to development of self-confidence in them. The major aim of this cell is empowering girls since it will lead to a change in the society which would be sustainable and will be in effect for ages to come. Many activities like self defence workshops conducted by Delhi Police, essay writing competitions, slogan writing competitions are being executed towards fulfillment of this aim.



College Clubs

With an objective to provide comprehensive opportunities to the students to explore, various clubs have been constituted in the College. These clubs organize several workshops, seminars, lectures, competitions, etc. to promote the academic and extra-curricular interests of the students. Various Clubs of the College are:

Astronomy Club

“Universe- A mystery yet to unveil”

Astronomy club provides platform to familiarize students with the fundamental facts of Universe. The Club aims to arouse the inquisitiveness among students for studying and finding the answers to the various unresolved problems of mysterious Universe.

Thus, club of our college organizes several events like Quiz Competition, Educational trip, lectures, documentary movies, etc. every year.



Dance Club



“To touch, to move, to inspire. This is the true gift of dance “

- Aubrey Lynch

Dance Club nurtures the talent, celebrate diversity and give expression to the creativity of young minds and motivates the students to organize and participate in various intra and inter college dance competitions. The college dance group is very talented and active in bringing laurels to the college by performing in several inter-college events.

Debate Club

“An idea changes when passes from one person to another.”

Debate club provides the opportunity to the students to think critically, improve their communication, analytical, oratory skills and increase their self-confidence. It motivates the students to express their views effectively and to respond cogently to arguments with which they disagree. With this very aim, the Debate Club organizes various activities like Quiz competitions,



Debate competitions both at Intra and Inter level, lectures, etc., every year.

Dramatics And Fine Art Club



“Expression has no boundaries. We can explore it in as many ways as we want”.

The Dramatics and Fine Art Club encourages the students to express their creativity in myriads of ways. It is a passionate and vibrant platform for budding actors, painters, etc. The students of the college are encouraged to take part in various competitions organized by the club like Nukkad Natak, Ad- Mad show, Stage play, Painting competition, Poster making, Rangoli making competitions, etc.

Eco Club

“The earth, the air, the land and the water are not inheritance from our fore fathers but on loan from our children. So we have to handover to them at least as it was handed over to us.”

- Mahatma Gandhi

The pace at which global warming has prejudiced our planet, ranging from rising sea level, threat to food supplies due to degradation of ecosystems and adverse effect on human health, is rather alarming. With the aim of creating awareness, providing training, resource material and imparting effective environment education to the students, Pranahi Eco Club organizes several events. International Ozone day is celebrated every year on September 18. A plethora of activities like lectures, Nukkad Natak, greeting card making competition out of waste materials, Flower pot decoration competition, Collage making on recycled sheets, Poster making competitions, Plantation Drive, are organized to create consciousness towards the environment. The College also has a Paper recycling unit.



Film Club

“Films portray different faces of our society”.

The Film Club was constituted with the aim of entertaining, educating and encouraging the students time to time with the screening of inspirational films related to various aspects like national pride academic excellence, science and technology and wild life. Screening of the art movie SHIP OF THESEUS in the college was an effort towards it.

Literary Club

"Reading makes a full man, meditation a profound man, discourse a clear man."

- Benjamin Franklin, an American statesman, scientist and philosopher

To be a full, profound and clear human (To be more gender neutral) one goes to the written words. Another proverb also goes as "pen is mightier than a sword." The very saying is an example of strength of writing where pen and sword become the symbols of intelligence and physical might respectively. Literary Club of the college intends to bring in students a sensitivity towards literature, help them in expression of thoughts and feelings, sensitise them towards the heterogeneity in society and interpret that in their own special way. This Club intends to equip students with finer sensitivities and tuned expressions to make their life more liveable and worthwhile.



With this aim, every year, the club organizes numerous events like Kavi Sammelan, events to motivate those people who have flair for writing, events based on poem to story conversion, etc.

Mountaineering And Trekking Club



"Let us reach closer to the nature and explore it".

Mountaineering and Trekking Club provides an opportunity not only to explore the nature at its closest but also to test physical and mental strength of explorers. In past, student members have been taken for a trek in different Indian mountain ranges. They were indulged in adventure sports like paragliding, ice-skiing etc.

Music Club

"Music is the soul of heart".

The Music club encourages students to realize their musical talent and perform. The 'Choir Group' and 'Rock Band Group' is formed every year based on the prior auditions. They perform during the Independence Day, Inter College Cultural Festival 'Srijan', during inauguration of various events and Annual Day.

The college facilitates the students to use musical instruments like Keyboard, Electric Guitar, Acoustic Guitar, Drums, Harmonium, Tabla, P.A. system etc. The



students participate in various inter college music competitions and events organized by National School of Drama and also brought laurels to the college.

Photography Club



“A picture speaks a thousand words”.

Photography is an art, science and practice of creating pictures that brings about a timeless jewel that is an epitome of perfection. It captures not only the precious moment but also its soul. Nevertheless, it's a reflection of the perspective of the photographer. Fine art photography requires a special talent and creativity which allows some to excel and reap rich rewards in both renown and monetary gain.

The photography club aims at teaching its members the art of photography by using various aids and self rectification of the

instrument in case of minor faults. The club organizes various inter college competitions, seminars and workshops, photography exhibitions, every year.

Yoga Club

“Yoga is the cessation of mind”.

Yoga is an ancient science that deals with the evolution of humanity which includes all aspects from bodily health to self-realization. It cultivates the ways of maintaining a balanced attitude in life and endows skill in the performance of one's actions. The objective of the various activities organized by the club is to create awareness about the efficacy of yoga in healthy lifestyle. To fulfill this objective, the Yoga club organizes lectures, Inter and Intra college yoga competitions, quiz competitions, yoga asanas demonstration on




various events in the College. “International Yoga Day” is also enthusiastically celebrated on June 21 by performing various asanas by teaching and non-teaching staff.

Research at BCAS

Various Research Projects are being conducted in the College with an objective of encouraging trans-disciplinary research and to inculcate research aptitude, skills and synergy among students and faculty. In these research projects, students and faculty of the college are actively involved. The focus is to nurture talent of young minds by stimulating them to pursue excellence and teach them to think creatively so that they become technologically superior and academically competent.

Project Code	Title of the Project	Principal Investigators (Departments)
BRNS, BARC, Bombay, 2015	Spatial Distribution of uranium and associated water quality parameters in groundwater/ surface water in six(06) districts of Uttar Pradesh (Agra, Mathura, Mahamaya Nagar, Kanshiram Nagar, Etah and Badaun)	Dr. Balaram Pani <i>(Chemistry)</i>
DU INNOVATION PROJECTS		
BCAS-301	Development of Norms of Selected Autonomic Nervous System function, Lipid Profile, Electrolyte and Selected Respiratory Variables of College Students with and without Sports Background.	Dr. Anil K. Bali <i>(Biology)</i> Dr. Lalit Kapur <i>(Chemistry)</i> Dr. Pawan Kumar <i>(Physical Education)</i>
BCAS-302	Development of an intelligent, eco-friendly multilayer package and nutritious snack from Fruits and Vegetable seeds and peels.	Dr. Susmita Dey Sadhu <i>(Polymer Science)</i> Dr. Meenakshi Garg <i>(Food Technology)</i> Dr. Vandana Batra <i>(Physics)</i>
BCAS-303	Development of Novel Eco-Friendly Printable Packaging Films for Industrial Applications.	Dr. Sidhharth Sirohi <i>(Polymer Science)</i> Dr. Krishna Dutt <i>(Polymer Science)</i> Ms. Ratyakshi <i>(Biomedical Science)</i>
BCAS-304	To understand the role of maternal factors in childhood obesity and promote metabolic fitness.	Dr. Avneesh Mittal <i>(Electronics)</i> Dr. Purnima Anand <i>(Microbiology)</i> Dr. Neha Bansal <i>(Microbiology)</i>

BCAS-305	To explore the potential of bio-similars as cost effective therapeutic products.	Dr. Uma Chaudhry <i>(Biomedical Science)</i> Dr. Balaram Pani <i>(Chemistry)</i> Dr. Ranjeet S. Thakur <i>(Library)</i>
BCAS-306	Clean Electricity Generation from waste water samples collected from Delhi-NCR using Microbial Fuel Cell Technology-A Green Energy Initiative.	Dr. Inderbir Kaur <i>(Electronics)</i> Dr. Ruchi Marwah <i>(Microbiology)</i> Mr. Pawan Kumar <i>(Instrumentation)</i>
BCAS-307	Agro Waste based Green Nano-Composite: Development and Applications.	Dr. S.K Shukla <i>(Polymer Science)</i> Dr. Rizwana <i>(Food Technology)</i> Dr. Anand Bharadvaja <i>(Physics)</i>
BCAS-308	Exploring the Involvement of Mechanotransduction Network in Inter-individual Differences through Ayurgenomics Approach.	Dr. Uma Dhawan <i>(Biomedical Science)</i> Dr. N.S Abbas <i>(Biology)</i> Dr. Pawas Goswami <i>(Microbiology)</i>
BCAS-309	Identification of Genetic Factors for Coronary Artery Disease and Its Association with other Atherogenic Risk Factors in Young Indians.	Dr. Neha Singh <i>(Biomedical Science)</i> Dr. Neeru Sharma <i>(Mathematics)</i> Ms. Arti Dua <i>(Computer Science)</i>
BCAS-310	Development of wireless sensor for detection and real-time monitoring of Microorganisms.	Dr. Jitender Kumar <i>(Electronics)</i> Dr. Amit Kumar <i>(Electronics)</i> Dr. Shalini Sehgal <i>(Food Technology)</i>
BCAS-311	Study and Design of Framework for Cloud Implementation in Large University/ Higher Education.	Mr. Bhavya Deep <i>(Computer Science)</i> Mr. Vikas Tyagi <i>(Physics)</i> Mr. Parveen Kumar <i>(Computer Science)</i>



BCAS-312	Development of cookies with biodegradable packaging material for diabetics.	Dr. Eram S. Rao <i>(Food Technology)</i> Dr. Manjeet Singh <i>(Polymer Science)</i> Dr. Prem Lata Meena <i>(Polymer Science)</i>
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College Rules


- **Identity Card:** Identity cards are issued to all the bonafide students of the College. It must be renewed in the beginning of every academic session. Student has to wear Identity Cards during the college timings. Duplicate I-card will be issued only after furnishing a copy of the F.I.R. and on payment of Rs.100/-
- **Vehicle Pass:** Students are not allowed to bring automotive vehicles inside the College campus without a valid vehicle sticker, which can be issued from the college office once he/she has been issued the college identity card.
- **Hostel:** The College does not provide hostel facility. Outstation students are required to make their own arrangements for boarding and lodging.
- **D.T.C. Bus Pass and Railway Concession:** The students can avail the D.T.C. Bus Pass facility. Outstation candidates are entitled for 2nd Class Sleeper Railway concession for visiting their home town during vacations as per the University norms.
- **Examination:** Examination procedure shall remain same as notified by the University of Delhi.
- **Website:** Students are advised to regularly visit the college and Delhi University website viz; <http://bcas.du.ac.in> and <http://du.ac.in> for important notices, ordinances, timetable and inputs and for reference to various undertakings and guidelines.
- **Notice Board:** Students are advised to check the notice boards for regular updates and relevant information.

Library Rules and Regulations

1. The Library is open to the College students and staff members only.
2. The librarian has the discretion to refuse admission to student(s).
3. Any issued book/s can be demanded back at any time.
4. Personal books, umbrella, stick, money- bag, mobile phones etc. are not allowed in the library. These personal belongings are to be left outside the library at their own risk.
5. Students must carry their Identity Card with them whenever they enter the library. They can be refused admission to the library if they fail to produce their identity card on demand.
6. Any misuse of the library facilities will be considered as a serious breach of discipline and the Principal can take such action as is necessary.
7. The Principal may change any or all the library rules without any notice.
8. Students are expected to read notices issued by the Librarian from time to time. Ignorance will be no excuse.
9. Students on leave must arrange for the return of books in time.
10. Entire library premises are a SILENCE ZONE.
11. Borrowers must ensure that book(s) which are not properly issued in their name are not to be taken out of the library in any circumstances.
12. Membership is NOT TRANSFERABLE.
13. Book(s) once taken from the shelves should be left on the reading- table only.
14. Students are entitled to borrow four books. The books are issued for seven days only.
15. The rate of overdue charges will be Re 1/- per day per volume for 1st week. Rs 2/- per day per volume for 2nd week and Rs 5/- per day per book thereafter.
16. Students may borrow books against the membership ID issued to them. Loss of library documents should be immediately reported to the Librarian with the copy of an FIR lodged.
17. Books from the stock room may be retained for a period of one week. Borrowers must ensure that the books borrowed by them are not spoiled, dog-eared, marked or otherwise mutilated.
18. Books lost or damaged shall have to be replaced or its double price shall be charged from the borrower.
19. Reference books and “Not to be issued” books will not be issued. NO BOOK(S) SHALL BE ISSUED AFTER THE LIBRARY CLEARANCE.

Admission Rules

- The medium of instruction is English only for the admission forms.
 - Applicants selected for admission, will have to deposit the required fees by a crossed *Bank Draft/ Pay Order*, drawn in favour of *The Principal, Bhaskaracharya College of Applied Sciences*, from any Nationalised Bank payable at New Delhi.
 - Documents required at the time of Admission: Applicant selected for admission will be required to submit the admission form along with the following certificates in original along with their self-attested copies*
 - ✓ Board Examination Certificate (Class X) issued by the concerned board.
 - ✓ Provisional Certificate class XII examination from the institution last attended, if Board Certificate is not issued.
 - ✓ Detailed marksheet of class XII & X examination issued by the relevant Board.
 - ✓ A recent Character Certificate from the Head of the institution last attended.
 - ✓ Transfer Certificate from the School/College last attended and Migration Certificate from Board/University (required from the students who have passed Senior Secondary Exam from outside Delhi.)
 - ✓ Certificate mentioning Hindi studied minimum upto class VIII.
 - ✓ Certificate from the appropriate authority, in case the candidate belongs to anyone of the reserved categories.
 - ✓ One thumb size and three identical recent passport size coloured photographs.
 - ✓ OBC candidate has to submit OBC(non creamy layer) certificate in the name of the Candidate issued by competent authority.
- All the certificates must be self attested by the candidate.
- *(If any false attestation/falsified records are detected, the student 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 IPC etc.) will be instituted against him, to subject him to the requisite criminal proceeding)
- Candidates having passed qualifying examination in a year other than 2016 (Gap year Students) may be considered for admission in accordance with the existing rules of University of Delhi. They will be required to produce a gap year affidavit to the following effect as per the specimen available in the prospectus.
 - Candidate along with his/her parent or Guardian will be required to submit affidavit of anti-ragging as per the prescribed format available in the prospectus.
 - Candidates have to fill the Form for mentioning their choices of General Elective-I (GE-1) paper at the time of admission. They are required to refer the syllabus before opting for any paper. The link of the syllabus is provided on the page containing information about the Departments.
 - All the admissions are provisional, subject to the verifications of documents submitted and approval of University of Delhi.
 - A student may get his/her admission cancelled through an Admission Cancellation Form available in the college office, in person only. No online request for the cancellation of admission will be entertained. Fee will be refunded as per the University of Delhi guidelines that are in force from time to time through RTGS in the name of the candidate only.
 - Security Deposits/Caution money shall be refundable provided that the application for refund of the same should be submitted within a period of one year from the date of leaving the college.

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- The College reserves the right to cancel admission of any student without assigning any reason thereof.
 - Personal presence of the candidate is necessary at the time of admission and cancellation of admission.
 - Subject to availability of seats, admission will be made as per the University of Delhi guidelines only.

Relaxation and Reservation

Admission in the reserved category will be done as per the University of Delhi norms.

SC/ST: The minimum eligibility requirement for SC/ST candidates will be that they must have passed the qualifying examination. 22.5% of the total seats are reserved for candidates belonging to Scheduled Caste/ Scheduled Tribes, of which 15% seats are reserved for Scheduled Caste and 7.5% for Scheduled Tribe candidates(interchangeable, if necessary). Relaxation to the extent of 5% in the minimum marks will be given to candidates under this category to determine their eligibility and merit for admission to the course concerned.

OBC: To the extent of 10% relaxation in the minimum eligibility as prescribed for the general category candidates shall be given to OBC students in the qualifying examination. 27% of the total seats are reserved for candidates belonging to **OBC Non-Creamy Layer**. The OBC status is to be determined on the basis of the Central list of OBCs. Students are required to submit the OBC (Non-Creamy layer) certificate (in the name of the candidate).

Person with Disability (PWD): 3% of total seats are reserved for candidates having minimum 40% disabilities. Modalities of Delhi University will be followed in this regard. Students are also required to submit a disability certificate issued by Chief Medical Officer of a district/civil surgeon or any Govt. Hospital in the format as per Govt. of India guidelines.

a) The certificate should be recent and valid on the date of admission. Diagnosis should be written clearly in the certificate.

b) It should be signed by a board of 3 doctors with legible stamp indicating the name & designation of the doctors.

c) The certificate should be countersigned by CMO/Medical Superintendent/with stamp under the signature. Certificate should have photograph of candidate.


Foreign Nationals: 5% seats are reserved for Foreign Nationals in first year of each course. Foreign students seeking admission to various courses are required to register themselves with University of Delhi, as per their norms.

Kashmiri Migrants: Upto 5% seats are reserved course-wise in all colleges for wards of Kashmiri Migrants. They are required to register centrally with University of Delhi as per their norms. A concession of maximum 10% in last cut-off marks fixed for general category candidates shall be extended to candidates under this category.

Armed Forces: 5% seats are reserved for the children/ widows of officers and Men of armed forces including para-military personnel in the order of preference given below.

- i. Widows / Wards of Defence personnel killed in action;
- ii. Wards of serving personnel and ex-servicemen disabled in action;
- iii. Widows / Wards of Defence personnel who died in peace time with death attributable to military service;
- iv. Wards of Defence personnel disabled in peace time with disability attributable to military service;
- v. Wards of Ex-servicemen personnel and serving personnel including police personnel who are in receipt of Gallantry Awards;

They are required to register themselves with the University of Delhi.



Sports/ECA: Not more than 5% of sports/ECA quota (subject-wise) may be filled on the basis of sports and extra-curricular activities. Admissions under sports/ECA categories will be done in accordance with the guidelines notified by the University from time to time.

The admissions under these categories will be done as per University of Delhi norms. For further information, please refer to the website of University of Delhi i.e. www.du.ac.in

Financial aid and Awards

Fee Concession: Limited Number of fellowships is available for needy and deserving students as per the Delhi University rules. A student in need of financial assistance can contact the Convener, Students Advisory and Public Relations Committee of the College.

Scholarship: Meritorious students are awarded scholarships by the Delhi Government. Exact details can be obtained from the College Office.

Deepika Wanganoo Memorial Prize: A prize is given every year to the topper of B.Sc.(Hons.) Electronics in the memory of B.Sc. (Hons.) Electronics' student Deepika Wanganoo.


Saurabh Grover Memorial Prize: A prize is given every year to the topper of B.Sc.(Hons.) Physics in the memory of B.Sc.(Hons.) Physics' student Saurabh Grover.

The Best Student Award: The College gives this award for the all round performance of the final year student, based on good academic record and active participation in co-curricular and extracurricular activities of the College.

Distinguished Alumnus Award: The College announces an award for distinguished alumni each year amongst various Departments.

Discipline

1. Students are responsible for their conduct to the Principal and are prohibited from doing anything, either inside or outside the College, which will amount to a breach of discipline or interference in the normal working of the College. A student shall be liable to disciplinary action for any act of indiscipline. Disciplinary action may involve warning and/or suspension from classes, from the examinations, from the College Library or even from the College, or any such action as provided in Ordinance XV (B), XV (C) and XV (D) of the Rules of Discipline of the University of Delhi.
2. Students shall conduct themselves in a civil and dignified manner, and desist from offensive behaviour towards any section of the college community. Uncivilized behaviour and/or language shall be sternly dealt with.
3. No student who faces any disciplinary action shall be eligible for special recognition from the college. This includes prizes, scholarships, financial assistance and college 'Srijan' and sports certificates.
4. Students shall maintain perfect silence in class rooms and desist from disorderly behaviour. They must not loiter in the corridors or in front of class rooms or office rooms. During their free periods, students are advised to work in the Library or Reading Room, or spend time in the Common Room, without causing any disturbance whatsoever. Verbal abuses will also be considered as violation of the discipline.
5. Playing in the college corridors is not allowed. Students should also avoid playing cards in the college premises.
6. **Smoking in the College premises is an offence and is strictly prohibited.**
7. **Possession or the consumption of alcohol/ drug or other addictive material is strictly prohibited in the college premises and will lead to termination from the college.**
8. **Ragging in any form is strictly prohibited.** Anyone involved in such cases will be dealt strictly with according to the rules of University of Delhi.
9. Students shall take proper care of the College furniture and fixtures. They must not cause any damage to the College property. The College has lovely lawns/gardens. Students should take good care of them.
10. No student shall litter, sweep, lay or throw any ashes, dirt, garbage, refuse or rubbish of any kind in places other than the designated ones.
11. Students may park their vehicles in the parking space provided for this purpose. No vehicle should be parked in any other part of the College premises without the valid sticker issued to them.
12. No society shall be formed in the College without the prior permission of the Principal, nor shall any person be invited to address a meeting in the College without the prior permission of the Principal.
13. Students suffering from any contagious or infectious disease should not attend College.

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14. Names of students who absent themselves regularly from classes may be struck off the College Rolls.
 15. All notices/circulars issued time to time will be binding on all students.

Fee Structure

Details of the annual fees to be paid by the candidate seeking admission to various courses are as per the details given below. The fee is required to be submitted via crossed DD/PO in favour of *The Principal, Bhaskaracharya College of Applied Sciences* only. The fee structure given does not include the examination fee which is to be submitted separately as per the University norms. Some changes may occur in the fee structure so students should see the college Notice Board before payment of fee, if offered admission.

S. No.	ANNUAL FEES HEAD	AMOUNT (Rs.)*
(A)	Course Fees [Only for B. Sc. (H) Computer Science]	15,000.00
(B)	Course Fees [B.Sc. (H) Polymer Science and B.Sc. (H) Biomedical Science]	10,000.00
(C)	COLLEGE FEE(All B.Sc. (H) Courses)(new and existing)	
1	Admission Fee	15.00
2	Tuition Fee	200.00
3	Magazine Fee	150.00
4	Library Development and Reading Room Fee	600.00
5	Identity Card Fee	150.00
6	Garden Fee	250.00
7	Water and Electricity Fee	185.00
8	Laboratory Fee	850.00
9	Computer Laboratory Fee	300.00
	TOTAL (C)	2700.00
(D)	UNIVERSITY FEES	
1	University Enrolment Fee	200.00
2	University Athletic Association Fee	50.00
3	University Cultural Activities Fee	5.00
4	University Development Fee	600.00
5	Prevention of Sexual Harassment Fee(University)	2.00
6	N. S. S. Fee	20.00
7	World University Service Fee (University)	2.00
8	Student Union Fee(If formed)	20.00
	TOTAL (D)	899.00
(E)	STUDENTS' FUND FEE	
1	Placement Cell Fee	150.00
2	Games & Sports Fee	500.00
3	Function, Cultural Activity, Seminar & Founder's Day/ Annual Day/ Prizes	1000.00
4	Alumni Fund Fee	100.00
5	Students' Aid Fund	100.00
6	College Security Fee (Refundable)	2500.00
7	Library Security Fee (Refundable)	2500.00
8	Development Fund Fee	750.00
9	Picnic/ Excursion & Educational/ Industrial Trip Fee	250.00
10	Establishment/ Maintenance Fee	100.00
11	Internet Facility	200.00
12	Medical Fee/ First Aid Fund	50.00
13	General Amenities Fund	25.00
14	Professional Development Fund	10.00
15	Prevention of Sexual Harassment Fee(College)	8.00
16	World University Service Fee(College)	3.00
17	Women Development Cell	10.00
18	Student Advisory Fee	100.00
19	Career Counselling Fee	50.00
20	Swachhta Fee	50.00
21	Departmental Society Fee	100.00

22	Student Social Activity Fee	15.00
23	Club Fee(Two clubs per student per annum)	200.00
	TOTAL (E)	8771.00

<i>Course</i>	<i>Total Approximate Fee (Rs.)*</i>
B. Sc.(H) Computer Science [A+C+D+E]	27370.00
B. Sc.(H) Polymer Science/ Biomedical Science [B+C+D+E]	22370.00
B.Sc.(H) Botany/Chemistry/Electronics/ Food Technology/ Microbiology/ Physics/ Instrumentation/Zoology (C+D+E)	12370.00

*All the figures are in Indian Rupees.

*Fee is tentative and any deviation should be settled by the student seeking admission.

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) wilful 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) 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 course or courses 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
 - (f) 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.

ORDINANCE XV-C: Prohibition and Punishment for Ragging

1. Ragging in any form is strictly prohibited, within the premises of College/Department or Institution and any part of Delhi University system as well as on public transport.
2. Any individual or collective act or practice of ragging constitutes gross indiscipline and shall be dealt with under this Ordinance.
3. Ragging for the purposes of this Ordinance, ordinarily means any act, conduct or practice by which dominant power or status of senior students is brought to bear on students freshly enrolled or students who are in any way considered junior or inferior by other students and includes individual or collective acts or practices which-
 - (a) involve physical assault or threat to use of physical force;
 - (b) violate the status, dignity and honour of women students;
 - (c) violate the status, dignity and honour of students belonging to the scheduled castes and tribes;
 - (d) expose students to ridicule and contempt and affect their self esteem;
 - (e) entail verbal abuse and aggression, indecent gestures and obscene behaviour.
4. The Principal of a College, the Head of the Department or an Institution, the authorities of College, of

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 course 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 Delhi University 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 and 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.

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 workplace 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.

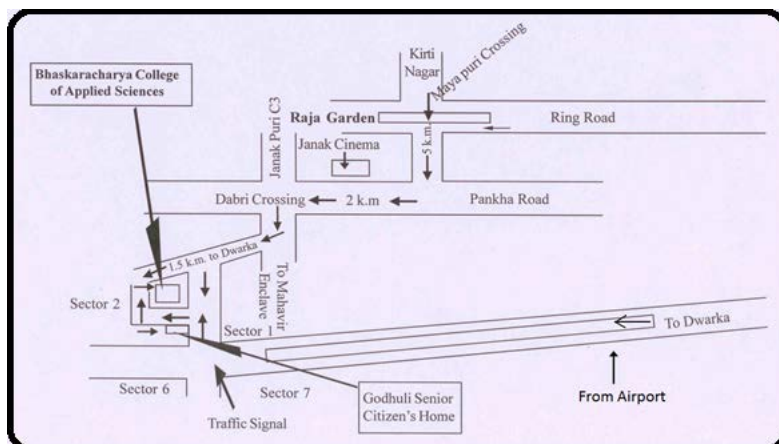
AND WHEREAS it is expedient to make provisions for giving effect to the said Convention for protection of women against sexual harassment at workplace.

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

The information provided here is to the best of our knowledge. For further information, please refer to the website of University of Delhi i.e. www.du.ac.in

College Map

College is well connected by public transport viz; Delhi Metro and road transport (761,778,721,801, 764, 727, RL77, etc.) from all parts of Delhi. The closest metro stations are Dwarka Mor or Dwarka Sec.11(about 3 Km from the college) and connected through feeder and other transport means.



General format of various undertakings

Various undertakings formats are given below which are required to be submitted by the student seeking admission at Bhaskaracharya College of Applied Sciences, at the time of admission on non-judicial stamp paper of **Rs 10/-** duly attested by Notary Public/ First Class Magistrate.

MANDATORY AFFIDAVIT TO BE PRODUCED AT THE TIME OF ADMISSIONS

It is mandatory as per Hon. Supreme Court & UGC/AICTE Regulations that all students fill in an Anti-Ragging Affidavit each year. To make the process easy MHRD has developed an ONLINE facility.

Affidavits can be obtained from any of the two web-sites:

WWW.ANTIRAGGING.IN

Or

WWW.AMANMOVEMENT.ORG

GAP YEAR UNDERTAKING

All students who did not pass the qualifying examination for admission to **I year** in April/May 2016 must submit an undertaking at the time of admission in the following format.

I, <*Name of the Candidate>, son/ daughter of Shri <*Name of the Father/ Mother/ Guardian>, R/O <Permanent Address> do hereby solemnly affirm and declare on this day of <date> as under:-

1. That I passed the <Name of the qualifying examination> in <year> from <name of Institution with address>.
2. That I was preparing for <medical/engineering/other(provide detail)> competitive entrance examination after passing the qualifying examination.
3. That I was not admitted to this course <name of the desired course seeking admission> in any College of Delhi University after passing the qualifying examination.
4. That I was not involved in any criminal case, Police custody and no civil/criminal case pending against me in any police station/court in state.
5. That it is my true statement. If at any time of point, any of my above statements are found to be untrue, my admission to <name of the desired course seeking admission> shall be cancelled.

Verification

Deponent

Verified at Delhi, on this day of <date> that the all contents of the above affidavit are true and correct to the best of my knowledge and belief.

Notary Public/ First class Magistrate (Stamp) In the presence of :

(Witness details)

Deponent

OBC Non Creamy Layer Certificate

1. I, _____ son/daughter of Shri _____ resident of village/ town/ city _____ district _____ state _____ hereby declare that I belong to the _____ community which is recognized as a backward class by the Government of India for purpose of reservation in services as per orders contained in Department of Personnel and Training Office Memorandum No.36012/22/93-Estt.(SCT) dated 8.9.1993(available at <http://ncbc.nic.in/creamyayer.htm>). It is also declared that I do not belong to persons/sections (Creamy Layer) mentioned in Column 3 of the Schedule to the above referred Office Memorandum dated 8.9.1993 which is modified vide O.M. No. 36033/3/2004-Estt.(Res.) dated 14th October, 2008 and O.M. No. 36033/1/2013-Estt.(Res.) dated 27th May, 2013.
2. My family's gross annual income is not Rs.6.0 Lakh or above for a period of last three consecutive years as per mentioned in column 3 of the Schedule to the Government of India, Department of Personnel & Training O.M. No. 36012/22/93-Estt(SCT) dated 8-9-1993 O.M. No. 36033/3/2004-Estt.(Res.) dated 9th March, 2004 and O.M. No. 36033/3/2004-Estt.(Res.) dated 14th October, 2008 and O.M. No. 36033/1/2013-Estt.(Res.) dated 27th May, 2013.
3. I also understand that, my admission to the Bhaskaracharya College of Applied Sciences (hereinafter called the institute) is provisional and is subject to the community certificate being verified through the proper channels. If the verification reveals that my claim to belong to Other Backward Classes or not to belong to creamy layer is false, I will be rusticated from the institute hence forth without assigning any further reasons and without prejudice to such further action as may be taken under the provisions of Indian Panel Code for production of false certificates.

Admission Committee

Convener:	Dr. Amit Kumar	9868007267
Co-Convener:	Dr. Purnima Anand	9818563729
Department	Members	Contact Number
Biomedical Sciences	Dr. Uma Dhawan	7838840800
Computer Science	Ms. Arti Dua	9810228096
Electronics	Dr. Jitender Kumar	9910941616
Food Technology	Dr. Rizwana	9810998663
Instrumentation	Dr. Avneesh Mittal	9868383487
Microbiology	Dr. Pawas Goswami	9899293335
Physics	Dr. Anand Bharadvaja	9810690359
Polymer Science	Dr. Susmita Dey Sadhu	9910028035

Core Committee Student Counselling System*

Members	Contact Number
Dr. Shalini Sehgal	9810586489
Dr. Anil K. Bali	9810696967
Dr. Madhulika Bajpai	9810370880

Proctorial Committee

Convener: Dr. Vikas Tyagi	9718449166
Members	Contact Number
Dr. Amit Kumar	9868007267
Dr. Bhavya Deep	9899075383
Dr. Eram S. Rao	9818881588
Dr. N. Vijay Kumar	9968126699
Dr. Partha S. Pal	9911228448
Dr. Ragini Jindal	8826221626
Dr. Siddharth Sirohi	9868898270
Dr. Uma Chaudhary	9811746265
Dr. Avneesh Mittal	9868383487
Dr. Pawan Dabas	9312219030
Dr. Madhulika Bajpai	9810370880

Prospectus Committee

Convener: Ms. Shweta Gupta	9891163321
Members	Contact Number
Ms. Arti Dua	9810228096
Dr. Meenakshi Garg	9958415333
Dr. Pawas Goswami	9899293335
Dr. Shivani Varmani	9811328195
Dr. Siddharth Sirohi	9868898270
Dr. Vandana Batra	9810428467
Dr. Avneesh Mittal	9868383487

SC/ST Cell

Convener: Dr. Jitender Kumar	9910941616
Members	Contact Number
Dr. Amit Kumar	9868007267
Dr. Siddharth Sirohi	9868898270
Dr. Vikas Tyagi	9718449166
Non-Teaching Staff Members	

Special Categories Admission Enabling Committee

Convener: Dr. Jitender Kumar	9910941616
Members	Contact Number
Dr. S. K. Shukla	9818487997
Dr. N. Vijay Kumar	9968126699
Dr. Meenakshi Garg	9958415333

Public Grievances Redressal Committee*

Convener: Dr. Sujata Bhardwaj	9810979868
Members	Contact Number
Dr. Ruchi Marwah	9871817295
Dr. N.S. Abbas	9810861086
Dr. Lalit Kapur	9811211222
Dr. Anand Bhardvaja	9810690359

*This committee will look for grievances during admission.

Student advisory and P.R. Committee

Convener: Dr. Ruchi Marwah	9871817295
Co-Convener: Dr. Uma Chaudhary	9811746265
Members	Contact Number
Dr. Meenakshi Garg	9958415333
Dr. Ranjeet S. Thakur	9818001146
Dr. Sangeeta Srivastava	9873027777
Ms. Shweta Gupta	9891163321
Dr. Siddharth Sirohi	9868898270
Dr. Vandana Batra	9810428467
Dr. Avneesh Mittal	9868383487

*This committee will also look for grievances during admission.