



BHASKARACHARYA COLLEGE OF APPLIED SCIENCES (UNIVERSITY OF DELHI)

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PROSPECTUS 2012-13

FROM THE PRINCIPAL'S DESK

“Take the first step in faith. You do not have to see the whole staircase, just take the first step”

- Martin Luther King Jr.

It is the trust and faith which has developed over years of excellence that the University of Delhi has established as ‘the destination’ for the fresh young minds coming out of the shells of schooling and parenting. It is the time to come out and take a leap towards one’s career interests and areas of strength. I, on behalf of Bhaskaracharya College of Applied Sciences, extend a very warm welcome to you in our college where I can ensure you of quality education comparable to any world class institute of excellence. This college caters to the specific needs of students by imparting education in the field of science which is, in fact, the future of any country’s development and economy. Our college has the distinction of being awarded under the Star College Scheme of Department of Science and Technology, Government of India.

The college has various clubs and societies to facilitate students in acquiring and developing their talent. Some of the clubs are: Astronomy Club, Dramatics and Fine Arts Club, Dance Club, Debate Club, Eco Club, Film Club, Literary Club, Mountaineering and Trekking Club, Photography Club, Music Club and Yoga Club.

In the past years, several students of our college have been selected for campus placement by companies like DELL, Genpact, MIE Pvt. Ltd, Wipro Tech. and Mahendra Technologies to name a few.

We are also proud to declare that our college is a NO RAGGING, NO SMOKING ZONE of University of Delhi. This is a small effort on our part to make our precious freshers feel secure and our environment pollution free.

No academic institute is made with cement and bricks. Of course, they help in constructing the outer structure of an organization but the real pillars of strength are its students and faculty. I appreciate our students who have shown exemplary discipline throughout these years and our faculty and non-teaching staff who have earnestly worked to make this college an organization to reckon within a few years of its establishment. I also acknowledge the Government of NCT of Delhi, University of Delhi and the college Governing Body for their support throughout.

I, along with my colleagues, invite you to join our college. I call upon you to take the first step in faith and we assure you of a safe staircase ahead.

GENERAL INTRODUCTION

1. **The College is a *Smoke free Zone of University of Delhi.***
2. All Undergraduate degree courses shall be taught in 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 (herein after called the Qualifying Examination) and wishes to seek admission to various undergraduate courses offered by the college (hereinafter called the course/s).
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 are provisional subject to approval of University of Delhi.
9. All the admissions under reserved category are provisional and subject to verification of certificates.
10. 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.
11. Applicants are advised to read carefully the College Prospectus and Information Bulletin issued by the University of Delhi separately.
12. All announcements regarding admission to the various courses will be put on the College Notice Board and no individual intimation will be sent.

ADMISSION SCHEDULE 2012-13

Registration of General/Other Backward Classes (OBC) candidates by the University	4 th -18 th June,2012
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S. No.	Activity	Date
1	Notification of First Admission List	26 th June,2012
2	Admission and Payment of Fees	26 th ,27 th ,28 th June,2012
3	Notification of Second Admission List	29 th June,2012
4	Admission and Payment of Fees	29 th ,30 th June,2012 2 nd July,2012
5	Notification of Third Admission List	3 rd July,2012
6	Admission and Payment of Fees	3 rd ,4 th ,5 th July,2012
7	Notification of Fourth Admission List(if any):	6 th July,2012
8	Admission and Payment of Fees	6 th ,7 th ,9 th July,2012
9	Notification of Fifth Admission List(if any)	10 th July,2012
10	Admission and Payment of Fees	10 th ,11 th ,12 th July,2012

Schedule for conversion of OBC seats, if required, will be as per University of Delhi notification.

Timing for deposition of fees is: 10 a.m. to 1 p.m.

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2. Biology	28
3. Chemistry	29
4. Human Communication	30
5. Mathematics	31

Every attempt has been made to verify the authenticity of the contents of the Prospectus 2012-13. However, the information contained in relevant Notifications, Releases, Rules, Regulations, Ordinances and Statues of the University of Delhi will be final. 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 guideline of the University as and when received.

BHASKARACHARYA-A GREAT MATHEMATICIAN



Bhaskaracharya is the most well known mathematician of ancient India today. He was also a great astronomer of his times. In fact, he is often described as a mathematician-astronomer of exceptional abilities. He composed his masterpiece *Siddhanta-Siromani* which consists of astronomical finding on planetary positions, Occurrences of eclipses and Cosmography; at the age of thirty-six in the year 1150 A.D.

Siddhanta-Siromani is divided into four parts; Lilavati (arithmetic), Bijaganita (algebra), Goladhyaya (celestial globe), and Grahaganita (mathematics of the planets). *Siddhanta-Siromani* has achieved high fame due to the fact that everything of Indian astronomy is found in it. In many ways Bhaskaracharya represents the peak of mathematical knowledge in the 12th century.

He reached to an understanding of the number systems and solving equations that was not achieved in Europe for several centuries. Bhaskaracharya has given simple methods to find the squares, square roots, cube, and cube roots of big numbers. He has also proved the Pythagoras theorem and given an approximate value of PI as $22/7$. He also wrote on the gravitational force in his book titled "*Surya Siddhant*".

Bhaskaracharya rightly achieved an outstanding reputation for his remarkable contribution in the field of mathematics. According to the tributes paid by one of the poets:

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

Founded in 1995, Bhaskaracharya College of Applied Sciences was named after the great Indian Mathematician of the 12th century Bhaskaracharya. This constituent college of University of Delhi; has a state-of-the art infrastructure and distinguished faculty of scholars trained at leading Universities in India and abroad who always work towards academic excellence. The College is fully supported and funded by the Government of NCT, Delhi. The college caters state-of-the art laboratories, spacious auditorium, extensive library facility, adequate classrooms and intellectual environment. The sprawling campus spans about ten acres of land with exquisite landscaping and captivating architecture.

Our students have invariably excelled in the university exams with positions of merit. The college provides comprehensive opportunities to its students to explore and attain the zenith of success in their respective fields. Activities that fall outside the realm of the usual curriculum plays a vital role in imbibing strong ethical values in the students and to transform them into ignited individuals and competitive professionals so that they can reach to the pinnacle of success in their field. With this perspective in mind, there is a continuous endeavour to ensure that the students evolve into near perfect entities through a synergy of academic education and various vibrant extracurricular and co-curricular activities under the aegis of various educational clubs and societies. The college also offers opportunities to learn several contemporary subjects in the form of short term add on courses being taught by experts from within and outside. In order to inculcate research aptitude, skills and synergy among students and faculty various Innovation Projects are also conducted in the college. The college tries to infuse self confidence in our students and help them develop the skills and demeanour of lifelong learning so that they become academically competent and capable of facing the future with resilience and optimism.

Within a short span of time, our college is emerging as a benchmark for continuous journey towards excellence and has achieved remarkable recognition as one of the prestigious and progressive educational institution in Delhi.

COURSES OFFERED IN B.Sc (H)

1. BIOMEDICAL SCIENCE	5. INSTRUMENTATION
2. COMPUTER SCIENCE	6. MICROBIOLOGY
3. ELECTRONICS	7. PHYSICS
4. FOOD TECHNOLOGY	8. POLYMER SCIENCE

COURSES OFFERED, NO.OF SEATS AND ELIGIBILITY

Course & (No. of Seats)* Gen/SC/ST/OBC/PH	Requirement of Subjects Studied and Passed	Minimum Eligibility Conditions for admission	Basis of Selection	First Cut off % in 2011
B.Sc.(H)Biomedical Sciences (46) 23/7/3/12/1	Physics, Chemistry, Biology/ Biotechnology	55% aggregate in Physics, Chemistry, Biology/ Biotechnology(PCB/ Bt) and 50% marks in English (compulsory subject)	Marks in the Aggregate of 3 Science Subjects (PCB/ Bt).Students with atleast 60%marks in PCB/Bt with mathematics will be given an advantage of 3%over and above their PCB/Bt aggregate.	90% Physics, Chemistry, Biology/ Biotechnology
B.Sc.(H) Computer Science (46) 23/7/3/12/1	Mathematics, one language and two other subjects listed as academic subjects.	Mathematics or any other equivalent examination thereto in Arts/ Commerce/ Science and should have secured. (a) 60% or more marks in Mathematics (b) 55% or more marks in aggregate of four subjects including Mathematics, One language and Two other subjects listed as academic subjects by the respective Boards.	The admission would be based on the aggregate of marks scored (+2 stage) in the best three academic subjects including Mathematics (not more than one language to be considered). Students who have studied Physics, Chemistry, Mathematics, at +2 stage will be given 5% additional weightage in admissions	93% (Mathematics and best two academic subjects) (without PCM) 88% (Mathematics and best two academic subjects) (with PCM)
Academic Subjects: Hindi(core/Elective) , English(Core/Elective)/ Functional English, Other Languages, Mathematics, Physics, Chemistry, Biology, Engineering Drawing, Economics, Political Science, History, Geography, Business Studies, Accountancy, Home Science, Fine Arts, Agriculture, Computer Science, Informatics Practices, Sociology, Psychology, Philosophy, Physical Education, Music, Dance, Entrepreneurship, Biotechnology, Web and Multimedia Technology				
B.Sc.(H) Electronics (46) 23/7/3/12/1	Physics, Chemistry and Mathematics	55% or more marks in the aggregate of 3 Science subjects (PCM) and Passing one compulsory language i.e. English with 50%.	Marks in the Aggregate of 3 Science Subjects (PCM)	86% PCM
B.Sc.(H) Food Technology (46) 23/7/3/12/1	Physics, Chemistry, Mathematics, and Biology/ Biotechnology	55% or more marks in the aggregate of 3 Science subjects PCM/PCB(Theory and Practical together) and Passing one compulsory language i.e. English with 50%.	Marks in the aggregate of 3 Science Subjects PCM/PCB (whichever is higher). 3% relaxation for PCMB students.	80% PCM/PCB (whichever is higher)

Course & (No. of Seats)* Gen/SC/ST/OBC/PH	Requirement of Subjects Studied and Passed	Minimum Eligibility Conditions for admission	Basis of Selection	First Cut off % in 2011
B.Sc.(H)Instrumentation (46) 23/7/3/12/1	Physics, Chemistry and Mathematics	55% or more marks in the aggregate of 3 Science subjects (PCM) together and Passing one compulsory language i.e. English with 50%	Marks in the Aggregate of 3 Science Subjects (PCM)	80% (PCM/PCB)
B.Sc.(H) Microbiology (31) 16/5/2/8/1	Physics, Chemistry, Biology/ Biotechnology	55% or more marks in the aggregate of 3 Science subjects PCB- (Theory and Practical together) and Passing one compulsory language i.e. English with 50%	Marks in the Aggregate of 3 Science Subjects (PCB)	88% PCB
B.Sc.(H) Physics (31) 16/5/2/8/1	Physics, Chemistry and Mathematics	55% or more marks in the aggregate of 3 Science subjects (PCM) and Passing one compulsory language i.e. English with 50%	Marks in the Aggregate of 3 Science Subjects (PCM)	86% PCM
B.Sc.(H) Polymer Science (46) 23/7/3/12/1	Physics, Chemistry and Mathematics	55% or more marks in the aggregate of 3 Science subjects (PCM) and Passing one compulsory language i.e. English with 50%	Marks in the Aggregate of 3 Science Subjects (PCM)	75% PCM

**** Reservations as per Rules of University of Delhi.**

Right To Information Act

Appellate Authority	Dr. Jai Prakash (Principal)
Vice-Principal	Dr. Anil Bali
Public Information Officer	Dr. Rizwana
Assistant Public Information Officer	Sh. Rajiv Saini

Convenors of various Staff Council Committees		
1.	Academic	Dr. Uma Dhawan
2.	Admission	Dr. N S Abbas & Dr. Ragini Jindal
3.	Alumni Association	Dr. N.S.Abbas
4.	Canteen	Dr. Jitender Kumar
5.	College Magazine	Dr. Vandita Gupta
6.	Discipline	Mr. Sandeep Kumar
7.	Equal Opportunity Cell	Dr. Ramesh Kataria
8.	Extra-Curricular Activities	Sh. Ramesh Kumar
9.	Garden	Dr. Manoj Khanna
10.	Gandhian Study Centre	Sh. Ramesh Kumar
11.	Gender Sensitizing	Dr. Shalini Sehgal
12.	Library	Dr. Ranjeet Thakur
13.	NSS	Dr. Vijay K. Nalla
14.	Placement & Career Counselling Cell	Mr. Vikas Tyagi & Dr. Rizwana
15.	Prospectus	Ms. Shweta Gupta
16.	Sports	Dr. Pawas Goswami
17.	Students Advisory & Public Relations	Dr. Inderbir Kaur
18.	Time Table	Dr. Manoj Tiwari
19.	Website & Internet	Ms. Aarti Batra
20.	Women Development Cell	Dr. Ragini Jindal

Bursar	Dr. Balaram Pani
Section Officer (Administration)	Mr. Rajiv Saini
Section Officer (Accounts)	Mr. Rajiv Saini
Sr. P. A. to Principal	Ms. Ritu Sareen

ACADEMIC CALENDER

SEMESTER I/III/V	
Classes Begin	23 rd July,2012(Monday)
Mid-Semester Break	30 th September,2012(Sunday) to 7 th October,2012(Sunday)
Classes begin after Mid-Semester Break	8 th October,2012(Monday)
Dispersal of classes, Preparation leave and Conduct of Examinations	17 th November,2012(Saturday) to 15 th December,2012(Saturday)*
Winter Break	16 th December,2012(Sunday) to 2 nd January,2013(Wednesday)
SEMESTER II/IV/VI	
Classes Begin	3 rd January,2013(Thursday)
Mid-Semester Break	10 th March,2013(Sunday) to 17 th March,2013(Sunday)
Classes begin after Mid-Semester Break	18 th March,2013(Monday)
Dispersal of classes, Preparation leave and Conduct of Exams/Annual Examinations	1 st May,2013(Wednesday) to 21 st May,2013(Tuesday)**
Summer Vacation	23 rd May,2013(Thursday) to 23 rd July,2013(Tuesday)
*For the courses that continue in annual mode, there shall be HOUSE EXAMINATIONS during this period.	
** For the courses that continue in annual mode, there shall be ANNUAL EXAMINATIONS during this period.	

IMPORTANT DATES

Gazetted Holidays for the Year 2012

Janamashtami –August 10, Friday
 Independence Day- August 15, Wednesday
 Idu'l Fitr-August 20, Monday
 Mahatma Gandhi's birthday-October 2, Tuesday
 Dussehra –October 24, Wednesday
 Idu'l Zuha- October 27, Saturday
 Diwali-November 13, Tuesday
 Muharram-November 25, Sunday
 Guru Nanak's birthday-November 28, Wednesday
 Christmas Day-December 25, Tuesday

IMPORTANT EVENTS

Sports Meet	March, 2013
College Cultural Festival “SRIJAN”	February, 2013
Annual Prize Distribution Function	April, 2013

DEPARTMENT OF BIOMEDICAL SCIENCES

Faculty: 1. **Dr. Uma Chaudhry**, Ph.D. (D.U.) (*Teacher-In-Charge*)
 2. Dr. Shivani G. Varmani, Ph.D. (A.I.I.M.S.)
 3. Dr. Uma Dhawan, Ph.D. (D.U.)

B.Sc. (Honours) Biomedical Sciences is one of the premium three-year degree courses offered by University of Delhi. The Biomedical Science degree has been designed for students who wish to work in diagnostic and research laboratories in hospitals and research institutions.

The students acquire the experimental skills of a basic scientist and also the health perspective of a clinician. This course is broad based, and exposes the students to relevant areas of chemistry, biology and human physiology at a conceptual level. The theoretical instructions are backed by well designed appropriate laboratory experiences. The hands on experience enable students to have conceptual understanding on the one hand and confidence and motivation for advanced research in this area on the other.

The first year of this course is intended to be a foundation for the more advanced studies in subsequent years. This course is taken up with practical-based courses that build students' skills in this area. The second and final years take skills and theoretical development to more advanced levels. In the final year, students also carry out an independent research project in various Research Laboratories placed throughout the country. A choice of special paper in the final year is available to gain expertise in the field of interest of the students.

The Biomedical Science laboratories are well equipped with latest state-of-the art instruments such as computer based UV-Visible spectrophotometers, microtome, UV Transilluminator, microplate ELISA reader, digital colony counter, refrigerated high speed centrifuges, orbital shaker incubator, Palm Cycler, PCR machines, digital melting point apparatus, Nikon E100 Binocular Microscopes as well as other instruments including electronic balances, autoclave, colorimeters, vertical and horizontal electrophoresis units, electro-blotting system, laminar hood, magnetic stirrers, vortex shakers, ice flaking machine, ovens and others. Our students gain hands-on-training, facilitating them to achieve both conceptual knowledge as well as practical skills.

Our Biomedical Science Society “DNAmics” is a joint enterprise of students and teachers. The society have been instigated with an objective to abreast the students to the latest findings, developments and avenues in the field of Biomedical Sciences. Further it promotes academic, extra-curricular and socio-culture linkages with peers in other colleges and institutions. In the last academic year many of our students attended seminars and symposiums conducted by various colleges of University of Delhi and prestigious institutions. Students also participated in sports activities and brought several laurels in their credits.

After completing their graduation in B.Sc. (Honours) Biomedical Sciences, our students are encouraged to pursue higher education in prestigious institutions such as Indian Institute of Science, Bangalore; Integrated M.Sc.-Ph.D. program in Biomedical Sciences from Dr. B.R.

Ambedkar Centre for Biomedical and Research, University of Delhi; M.Sc. Environmental Sciences, University of Delhi; M.Sc. Biotechnology, Jawaharlal Nehru University, M.Sc. Genetics, University of Delhi etc.

SYLLABUS STRUCTURE		
SEMESTER I	SEMESTER III	SEMESTER V
LSPT 101: Biology – I : Introduction to Biology with Practicals BOHT 101: Human Physiology I with Practicals CHCT 301: Chemistry I with Practicals ENAT 101*: Technical Writing and / CSAT 101 Communication in English / Computational Skills	BOHT 303: Microbiology with Practicals BOHT 304: Pathology with Practicals CBHT 301: Cell Biology I with Practicals MBHT 301: Molecular Biology I with Practicals	BOHT 507: Pharmacology with Practicals BOHT 508: Biophysics with Practicals BOHT 509: Clinical Biochemistry with Practicals GGHT 501: Genetics & Genomics I with Practicals
SEMESTER II	SEMESTER IV	SEMESTER VI
ENAT 201*: Technical Writing and / CSAT 201 Communication in English / Computational Skills BOHT 202: Human Physiology II with Practicals CHCT 402: Chemistry II with Practicals MACT 303: Mathematics and Statistics	BOHT 405: Biochemistry with Practicals BOHT 406: Medicinal Chemistry with Practicals CBHT 402: Cell Biology II with Practicals MBHT 402: Molecular Biology – II with Practicals	BOHT 610: Toxicology with Practicals BOHT 611: Immunology with Practicals BOHT 612 a,b,c,d**: Special Paper with Practicals GGHT 602: Genetics & Genomics II with Practicals

*Students have to appear in both the papers; however they have an option to take either of the two papers in a particular semester.

****SPECIAL PAPERS:** Bioinformatics^a, Human Genetics^b, Medical Biotechnology^c, Social and Preventive Medicine^d

In addition, there shall be one qualifying paper in Environmental Studies offered in Semester II.



DEPARTMENT OF COMPUTER SCIENCE

- Faculty:**
1. Ms. Manu Kataria, MCA (HPU Simla) (*Teacher-In-Charge*)
 2. Mr. Bhavya Deep, M.Sc. (DAVV, Indore)
 3. Ms. Amita Misra, MCA (HBTI Kanpur)
 4. Dr. Sangeeta Srivastava, M.E.(DCE), Ph.D. (D.U.) (*On leave*)
 5. Ms. Arti Batra, MCA (Bhartiya Vidyapeeth, GGSIPU)

The Department of Computer Science of Bhaskaracharya College of Applied Sciences conducts B.Sc. (Hons) computer science which is a stimulating and rigorous course based on the ever changing field of Computers and information technology. Over the years the department has evolved into a centre of excellence in academics, technology and other activities.

The department has wide availability of open-access computer facilities with the newly introduced Wi-Fi network in the college. The department provides the state-of-the-art computing facilities with more than 120 computers of Pentium range with latest software platforms like Dos, Linux, Windows-7 etc and high-end software's such as C++, Java, Visual Studio, SQL server, Ubuntu, Fedora etc. The department is spread over three spacious and air conditioned labs, networked to powerful servers. The department has high quality accessories such as scanners, printers, projectors and CD/ DVD writers.

The College provides internet access and e-Journal facility to encourage students in pursuing their research work.

The department has its very own society "CS.NET" which brings together all the students as a network and provides them ample opportunities to develop and advance in not only the field of computer science but other aspects of all-round development. The society also gives the students a chance to showcase their abilities and talents in their annual departmental fest "INTERFACE".

Opportunities

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.

SYLLABUS STRUCTURE		
SEMESTER I	SEMESTER III	SEMESTER V
CSHT 101: Programming Fundamentals using C++ CSHT 102: Discrete Structures ELHT 301: Digital Electronics MAPT 101: Calculus and Matrices CSHP 101: Software Lab based on 101 -- Lab based on Digital Electronics	CSHT 305: Design and Analysis of Algorithms CSHT 306 : Systems Programming CSHT 307: Database systems STC 301: Basic Statistics and Probability CSHP 304: Software Lab based on 305 CSHP 305: Software Lab based on 306 CSHP 306: Software Lab based on 307	CSHT 511: Theory of Computations CSHT 512: Microprocessors CSHT 513: Internet Technologies MAPT 505**/ Optimization I/ Real Analysis CSHP 511: Software Lab based on 512 CSHP 512: Software Lab based on 513
SEMESTER II	SEMESTER IV	SEMESTER VI
CSHT 203: Data Structures CSHT 204: Computer Systems Architecture ENPT 201: Technical Writing and Communication In English MAPT 202: Calculus and Geometry CSHP 202: Software Lab based on 203 CSHP 203: Lab based on 204	CSHT 408: Operating Systems CSHT 409: Data Communication and Computer Networks CSHT 410: Software Engineering MAPT 404: Differential Equations CSHP 408: Software Lab based on 408 CSHP 409: Software Lab based on 409 CSHP 410: Software Lab based on 410	CSHT 614: Computer Graphics CSHT 615: Information Security CSHT 616: Elective STC 402: Statistical Methodology CSHP 613: Software Lab based on 614 CSHP 614: Software Lab based on 615 CSHP 615: Software Lab based on 616 CSHP 616: Software Lab based on STC-402

In addition, there shall be one qualifying paper in Environmental Studies offered in Semester II.



DEPARTMENT OF ELECTRONICS

- Faculty:**
1. Dr. Manoj Khanna, Ph.D. (D.U.)
 2. Dr. Geeta Mongia, Ph.D. (D.U.)
 3. Dr. Inderbir Kaur, Ph.D. (D.U.)
 4. Mr. Avneesh Mittal, M.Tech. (D.U.) (*On-leave*)
 5. **Dr. Manoj K Tiwari**, Ph.D. (D.U.) (*Teacher-In-Charge*)
 6. Ms. Shweta Gupta, M.Sc. (D.U.)
 7. Dr. Amit Kumar, Ph.D. (D.U.)
 8. Dr. Jitender Kumar, M.Sc., Ph.D. (D.U.)

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, Engineering Mathematics and programming languages like C/C++. Practicals based on simulators like P-spice, Multisim, MATLAB, Scilab, etc. are also included in the curriculum.

The Electronics Laboratory has CRO & DSO (100 MHz), CRO demonstration kits, Pulse Generators, Function Generators, Power Meter, Analog and Digital I.C. tester, LCR Q-tester, 8085 and 8086 Microprocessor kits with assembler and disassembler, Microcontroller trainer, Interfacing modules and cards, Universal Programmer, various communication modules experimental kits, LASER kits, Antenna trainer kits, PCB design kit and PID controller. The Department also has well equipped computer laboratory with various simulation software to facilitate the students for computer practical.

Department of Electronics has its society named “**SPARKS**” which organizes various activities like seminars, Industrial visits, Electronics Fest etc. throughout the year. Eminent personalities from the academia and industries are invited to guide the students with their valuable knowledge about advancement in Electronic Technology. Students get an opportunity to acquire organization skills and get exposed to speakers from Electronics and allied industries.

This year a two day Workshop on “Experiments and Research Applications with National Instruments LabVIEW” was organized jointly with Department of Instrumentation and Trident Techlabs Pvt. Ltd. during 2nd-3rd February, 2012 in the college. Prof Avinashi Kapoor, Head, Department of Electronic Science & Dean, Faculty of Interdisciplinary Sciences, University of Delhi and Prof K. Sreenivas, Director, University Science Instrumentation Centre, University of Delhi were the Chief Guests for the occasion. The workshop was focused on bringing new technologies to the students and academic fraternity of the Electronics, Instrumentation, Physics and Computer Science Departments. The society of Electronics Department, “SPARKS” also organized a technical fest, “Techmania”, on 29th February, 2012 and Dr. Amarjeet Singh from IIT, Delhi delivered a lecture on Robotics. Various technical events were also held during the fest and the students participated actively in all the competitions. Winners of the various technical events were awarded with the prizes and certificates. A lecture on the topic, “MBA: As

a career option” was also organized in collaboration with Career Launcher to make the students aware of various career prospects.

This degree enhances career advancement opportunities for graduates and supplies the high technology sector with well educated professionals possessing strong practical skills. Opportunities are available in research & development, aerospace and defence electronics, design, testing, production, inspection, quality control, project management and technical sales. After graduation, students can also pursue M.Sc. in Electronics from University of Delhi, IIT, Jamia Millia University, Pune University, Kurukshetra University, Devi Ahilya University, Banasthali Vidyapeeth University, etc. The students are also eligible for M.Sc. in Information Technology and MBA/MCA from various Universities.

SYLLABUS STRUCTURE		
SEMESTER I	SEMESTER III	SEMESTER V
ELHT101: Applied Quantum Mechanics ELHT102: Engineering Materials ELHT103: Network Analysis ENAT101: Technical Writing & Communication in English (Compulsory) ELHP105: Electronics Practical-I Based on ELHT101 and ELHT102 ELHP106: Electronics Practical-II Based on ELHT103	ELHT301: Digital Electronics ELHT302: Analog Electronics-I MAHT305: Mathematics-II (Allied Paper) CS-1: Fundamental of Programming Languages (Allied Paper) ELHP305: Electronics Practical-V Based on ELHT301and CS-1 ELHP306: Electronics Practical-VI Based on ELHT302	ELHT501: Microprocessors And Microcontrollers ELHT502: Analog Communication ELHT503: Electronic Instrumentation ELHT504: Wave Propagation and Antenna ELHP505: Electronics Practical-IX Based on ELHT501 ELHP506: Electronics Practical-X Based on ELHT502 and ELHT503
SEMESTER II	SEMESTER IV	SEMESTER VI
ELHT201: Signals and Systems ELHT202: Semiconductor Devices CSAT 201: Computational Skills MAHT204: Mathematics-I(Allied Paper) ELHP205: Electronics Practical-III Based on ELHT201 and CS ELHP206: Electronics Practical-IV Based on ELHT202	ELHT401: Numerical Techniques ELHT402: Analog Electronics-II ELHT403: Electromagnetics CS-2: Data Structures (Allied Paper) ELHP405: Electronics Practical-VII Based on ELHT401 and CS-2 ELHP406: Electronics Practical-VIII Based on ELHT402	ELHT601: Electrical Machines ELHT602: Digital Communication ELHT603: Optics and Optical Electronics ELHT604: Engineering Mathematics ELHP605: Electronics Practical-XI Based on ELHT601 and ELHT602 ELHP606: Electronics Practical-XII Based on ELHT603

In addition, there shall be one qualifying paper in Environmental Studies offered in Semester II.



DEPARTMENT OF FOOD TECHNOLOGY

- Faculty:**
1. Dr. Rizwana, MSc. CFTRI, Mysore, Ph.D. (J. Hamdard)
 2. Dr. Vandita Gupta, Ph.D. (D.U.)
 3. Dr. Shalini Sehgal, Ph.D. (NDRI, Karnal)
 4. Dr. Eram S Rao, MSc, SNDT Univ. Mumbai, Ph.D(Bhopal Univ.)(*On leave*)
 5. **Dr. Meenakshi Garg**, Ph.D. (CCS Haryana Agricultural Univ., Hisar) (*Teacher- In-Charge*)

Food Technology is the application of food science to the selection, processing, preservation packaging, distribution, and use of safe, nutritious, and wholesome food. Food technology course attracts a large number of students because of its professional nature and also there is a growing demand of convenience foods due to the changing demographic profile of the society.

B.Sc. (Honours) Food Technology is an advanced course in the field of Food Science. It has a high degree of recognition in the modern food industrial world, as it covers the various aspects of food technology, food microbiology, food chemistry, food preservation, and food packaging. After completing this course, the students are competent to work in different fields related to food industry. The students are also exposed to internship in the form of summer training, where they take up research projects in various food industries and research institutes such as Mother Dairy, Britannia industries limited, Surya foods and Agro limited, Ambassador's Sky Chef, Food Research and Analysis Centre (FRAC) etc. which provides hands on experience to the students.

The Food Technology faculty inculcates a scientific fervour in the students with its state-of-the-art laboratories which are well equipped with basic and advanced analytical instruments such as Texture Analyser, Lovibond Tintometer, Brookfield's Viscometer, Bomb Calorimeter, Water Activity Meter, Gas Chromatographic Unit, Trinocular Microscope, Air Sampler, Vacuum oven, BOD incubator, membrane filtration assembly, electronic balances, drying ovens, high speed centrifuges, Digital Refractometer, Gravimetric Diluter etc. to name a few.

The Department of Food Technology has the unique distinction of establishing a **Pilot Plant** which is one of its kinds in Delhi and NCR. The objective is to provide experiential learning to the students on a mini food industry scale with respect to the various unit operations. It provides hands on experience to the students with the aseptic management of various processing, preserving and packaging technologies of food. The Pilot plant has a complete *Canning unit* to teach the processing of fruits and vegetables, *Baking unit* for imparting practical knowledge in bakery technology, a complete *Packaging unit* which includes Inert gas packaging machine, vacuum packaging machine, modified atmosphere packaging, Form fill and seal unit, as well as a range of *Package testing machines*. Besides this freezing technology and mechanical dehydration is taught by using deep freezers and dehydrators respectively which are also part of the set up. The *Mini Milk processing* unit which is used to teach processing of milk and milk products is also an integral part of the plant.

“Ambrosia” (Food Technology Society) creates educational awareness among the students through seminars and workshops about the recent developments and future prospects in research in various aspects of food science and technology. The society also arranges industrial visits and educational tours from time to time for the students. Last year, Society organized a Biscuit Topping competition and essay competition on ‘Problems And Solutions Towards The

Growth Of Indian Food Industry'. Ambrosia also organized an educational trip for FT 2nd year students to Skygourmet Catering Services Pvt. Ltd. Food production and packaging technology for airline industries in terms of quality, cost, service and safety had been shown to students. Information about innovative procedures to enhance the quality of the food served onboard had also been given to the students during visit. Ms. Megha Negi of FT3rd year was awarded the 'Italian Technical Services 'scholarship in food safety by the All India Food Processors Association for her academic performance. Last year, International "Better Process Control School for Manufacturers of Low Acid Foods" was also conducted at Negombo, Srilanka. The Department of Food Technology also organizes short term courses in the arena of Food Science, Clinical Nutrition, Food Packaging, Food Safety and Quality, etc to name a few from time to time to unfold the horizons of inter- disciplinary knowledge to the curious mind.

SYLLABUS STRUCTURE		
SEMESTER I LSPT101: Introduction to Biology FTHT 101: Introduction to Food Technology-I FTHT 102: Mathematics and Statistics ENAT 101*: Technical Writing in / CSAT 101 English / Computational Skills	SEMESTER III FTHT 306: Technology of Fruits, Veg. & Plantation crops HSHT 110: Foundations of Food and Nutrition FTHT 307: Food Processing & Engineering 502: Project Management and Entrepreneurship	SEMESTER V FTHT 511: Technology of Dairy and Sea food FTHT 512: Food Chemistry-I FTHT 513: Food Microbiology FTHT 514: Food Quality Testing and Evaluation
SEMESTER II ENAT 201*: Technical Writing in / CSAT 201 English / Computational Skills FTHT 203: Chemistry FTHT 204: Introduction to Food Technology-II FTHT 205: Principles of Food Science	SEMESTER IV FTHT 408: Technology of Cereals, Pulses & Oilseeds FTHT 409: Principles of Food Preparation BOHT 405: Biochemistry FTHT 410: Food Engineering	SEMESTER VI FTHT 615: Technology of Meat, Poultry & Eggs FTHT 616: Food Chemistry –II FTHT 617: Food Safety FTHT 618: Food Quality Management

*The students will have an option to take either of the two papers in a particular semester for a particular course, while they have to appear in both the papers. In addition, there shall be one qualifying paper in Environmental Studies offered in Semester II.



DEPARTMENT OF INSTRUMENTATION

Faculty: Dr.Geeta Bhatt, M.Sc., M.Phil., Ph.D. (Univ. of Mumbai) (*Teacher-In-Charge*)

Instrumentation is a specialized field that deals with the science and technology of measurement that service not only physical, chemical and biological sciences; but also all branches of engineering and medicine. Bhaskaracharya College of Applied Sciences is the only co-educational college in the University of Delhi, offering a Bachelor of Science (Hons.) course in Instrumentation.

Our College has a specialized **Instrumentation Laboratory** which provides practical expertise to the students and trains them to design, develop, maintain and trouble-shoot instruments that are being used in varied fields like Automation and Control, Process Industries, Medicine, Quality Analysis and Control. The Laboratory is 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 Aquisition Card, to help students interface and integrate real time signals and data. It also has Multisim software to simulate electronic circuits and designs. The Laboratory also acquaints students with devices used in Process and Control industries like Advanced Transducer & Instrumentation Trainer, Temperature Transducer Trainer, LVDT Trainer, Strain Gauge Trainer etc. Students learn to design and develop small projects on high performance microcontroller and microprocessor kits which are provided with various interfacing modules like Temperature Controller, Keyboard, Elevator Simulator Interface, Stepper Motor, LCD etc. The Instrumentation Laboratory also boasts of training students in sophisticated analytical and biomedical instruments like Plant Growth Chamber, Microprocessors based UV-VIS Spectrophotometer, 3 to 6 Channel Electrocardiograph, Heart Rate Monitor cum ECG trainer, Respiration Rate Monitor, etc.

Instrumentation today has evolved from a series of devices and has developed to fulfil specific needs of measurement and control. The economics of entire plants and processes are based on suitable control strategies and Instrumentation systems in the industry. R & D achievements in research organisations and industries depend on the availability of advanced instruments.

The objective of the department is to substantially enhance the knowledge and problem solving skills of students in the field of Instrumentation. The course focuses on providing holistic and quality education by encouraging them to organize and participate in technical and cultural festivals, seminars and workshops. This helps in developing their soft skills like communication, team work etc. Our continuous effort is in the direction of bridging the gap between academic society and industrial sector. Summer Training and Project after III year are an integral part of the curriculum.

The Instrumentation Departmental society “**Sensors**” regularly organizes workshops, seminars, educational tours. This year a Workshop on “Experiments and Research Applications with National Instruments LabVIEW” was organized jointly with Department of Electronics during 2nd-3rd February, 2012 which was attended by faculty and students not only from University of Delhi but also Netaji Subhash Institute of Technology (NSIT), Delhi Technological University and various colleges of Indraprastha University.

A lecture on ‘**Biomedical Instrumentation and its Indigenization**’ by Mr. Promit Biswas, Senior Project Officer in the Department of Gastro Intestinal Surgery, AIIMS was also organized. The main focus of lecture was to enlighten the students on the role of Instrumentation in Biomedical field. The Department also organized a **short term course** on ‘**Embedded Systems**’ from September – December 2011. The course was attended by the students of B.A.Sc (H) Instrumentation and B.Sc(H) Electronics. Various modules like C language, basic electronics,

8051 microcontroller, PIC microcontroller and Transducers were covered by the eminent faculties of different institutes like Netaji Subash Institute of Technology and National Physics Laboratory. Emphasis on hands on was given during the course, students completed various hardware based projects that can be implemented in day today's life, for instance speed control of Fan through microcontroller, Light Intensity Meter , Strain Gauge based precision weighing and more.

A lecture by Dr. Saleem Javed, Associate Professor and Principal Co-ordinator, M.Sc Bioelectronics and Instrumentation, from Jamia Hamdard University was also organized as part of Career Counselling Lecture Series. Some students of the course also participated as volunteers for a project on *Cognitive Assessment and Enhancement using different Non-Invasive techniques* being undertaken by Biomedical Engineering Department at INMAS, DRDO.

SYLLABUS STRUCTURE		
SEMESTER I	SEMESTER III	SEMESTER V
INHT 101: Network Analysis INHT 102: Applied Physics INHT 103: Mathematics I INHT 104: Chemistry INHP 105: Instrumentation Practical – I(INHT 101) INHP 106: Instrumentation Practical – II (INHT 102 and 104)	INHT 301: Digital Electronics INHT 302: Analog Electronics-I INHT 303: Biochemistry INHT 304: Signal & Systems or Microbiology and Genetics INHP 305: Instrumentation Practical – V(INHT 301 and 303) INHP 306: Instrumentation Practical -VI (INHT302 and 304)	INHT 501: Microprocessor INHT 502: Analytical Instrumentation-I INHT 503: Electrical Machines & Control Systems INHT 504: Biomedical Instrumentation-I INHP 505: Instrumentation Practical – IX (INHT502 and504) INHP 506: Instrumentation Practical – X(INHT 501 and503)
SEMESTER II	SEMESTER IV	SEMESTER VI
INHT 201: C and Data Structures INHT 202: Introduction to Instrumentation INHT 203: Mathematics II INHT 204: Biology INHP 205: Instrumentation Practical – III (INHT 202) INHP 206: Instrumentation Practical – IV (INHT 201and 204)	INHT 401: Industrial Instrumentation INHT 402: Analog Electronics II INHT 403: Statistical methods and Reliability INHT404: Electronics Instrumentation INHP 405: Instrumentation Practical – VII(INHT 401 and 404) INHP 406: Instrumentation Practical – VIII(INHT 402)	INHT 601: Analytical Instrumentation- II INHT 602: Biomedical Instrumentation-II INHT 603: Statistical Quality Control INHT 604: Microcontrollers and its applications INHP 605: Instrumentation Practical– XI(INHT601 and 603) INHP 606: Instrumentation Practical – XII(INHT 604)

In addition, there shall be one qualifying paper in Environmental Studies offered in Semester II.



DEPARTMENT OF MICROBIOLOGY

- Faculty:**
1. Dr. N. Vijaya Kumar M.Sc., M.Phil., Ph.D. (J.N.U)
 2. **Dr. Purnima Anand** M.Sc., Ph.D. (D.U.) (*Teacher-In-Charge*)
 3. Dr. Ruchi Gulati Marwah M.Sc., Ph.D. (D.U.)
 4. Dr. Pawas Goswami M.Sc., Ph.D. (NDRI, Karnal)

The Department of Microbiology has well equipped and furnished laboratories. The laboratories are equipped with state-of-the-art equipment's such as Biological Safety Cabinets, Microscopes, MLXM- Microscope, Trinocular Microscope, Spectrophotometers, UV-double beam Spectrophotometer, Autoclaves, Incubators, Centrifuge, Shaker incubators, Electrophoresis set up, High precision electronic balances, pH analyzers, cooling centrifuge, cooling cabinet, Reverse Osmosis purifier, Gel Documentation System, Icematic Machine, Hybridization oven, Mini Spinner, dry heating block, Auto pipettes etc. to carry out various microbiological, biochemical, biotechnological experiments related to the curriculum.

Microbiology is a branch of Science which deals with the study of microorganisms and their activities. It is one of the most dynamic areas of biological sciences as microbes are evolutionary and ecological pioneers and have immense importance in socio economic factors of day to day life. Microbiology is an exceptionally broad discipline encompassing and integrating areas as diverse as Biochemistry, Cell Biology, Genetics, Molecular Biology, Taxonomy, Bioinformatics, and Biotechnology and is thus an indispensable part of curriculum of most of the Life Science courses.

The course curriculum provides a balanced introduction to both basic and applied aspects of various areas of Microbiology. The students are acquainted with the knowledge about all major groups of microorganisms such as viruses, bacteria, algae, fungi and protozoa and their influence on day to day life.

Field visits to industries and various institutes are planned so that students have a chance to interact with faculty and scientists and are made aware of the bright and wide future prospects and scope of this course.

The Department has a society named “**Suksmjeev**” and also conducted program like **MICROQUEST (An annual Inter- College Microbiology Fest)**. World renowned Microbiologists, Prof. J. S. Viridi (Head, Microbiology Department, University of Delhi) and Dr. Anil Kumar Puniya (Principal Scientist, Dairy Microbiology Division, National Dairy Research Institute, Karnal) presented their views and career prospects of doing research in Microbiology.

SYLLABUS STRUCTURE		
SEMESTER I MIHT 101: Introduction to Microbial World MIHT 102: Bacteriology CHCT 301: Chemistry I ENAT 101*: Technical Writing and /CSAT 101 Communication in English / Computational Skills	SEMESTER III MIHT 304: Virology MIHT 305: Microbial Physiology and Metabolism I CBHT 301: Cell Biology I MBHT 301: Molecular Biology I	SEMESTER V MIHT 508: Plant Pathology MIHT 509: Immunology MIHT 510: Industrial Microbiology GGHT 501: Genetics & Genomics I
SEMESTER II ENAT 201*: Technical Writing and /CSAT 201 Communication in English / Computational Skills MIHT 203: Phycology and Mycology CHCT 402: Chemistry II MACT 303: Mathematics and Statistics	SEMESTER IV MIHT 406: Microbial Physiology and Metabolism II MIHT 407: Microbial Ecology CBHT 402: Cell Biology II MBHT 402: Molecular Biology II	SEMESTER VI MIHT 611: Medical Microbiology MIHT 612: Food and Dairy Microbiology MIHT 613: Recombinant DNA Technology and Biotechnology GGHT 602: Genetics & Genomics II

*The students will have an option to take either of the two papers in a particular semester while they have to appear in both the papers.

In addition, there shall be one qualifying paper in Environmental Studies offered in Semester II.



DEPARTMENT OF PHYSICS

- Faculty:**
1. Dr. Jai Prakash, M.Sc., Ph.D. (D.U.)
 2. Dr. Anand Bharadvaja, M.Sc., Ph.D. (D.U.)
 3. Dr. Vandana Batra, M.Sc., M.Phil., Ph.D. (D.U.) (*On leave*)
 4. Dr. Meetu Luthra, M.Sc., Ph.D. (D.U.)
 5. **Dr. Partha S. Pal**, M.Sc., Ph.D. (D.U.) (*Teacher-In-Charge*)
 6. Mr. Vikas Tyagi, M.Sc. (D.U.)
 7. Mr. Sandeep Kumar, M.Sc., M.Tech.(IITR)
 8. Mr. Ramesh Kumar, M.Sc., M.Tech.(IITD)

Physics is the branch of science that examines and offers a logical framework to understand the world around us, focused on matter, energy, space and time. It is one of the oldest academic disciplines, a basic science, which has made significant contributions to our understanding of the numerous physical phenomena all around us. The advances and understanding of this field has been translated into new technologies and new ideas.

The curriculum of B.Sc.(Honours) Physics offers students the opportunity to acquire a deep conceptual knowledge of fundamental physics as well as giving the students experience and cognizance of these concepts. The course is structured so as to give them the basic know-how of allied fields such as chemistry, mathematics, computer science and electronics.

The department has well equipped laboratories with all the latest and sophisticated equipments needed to provide an experimental insight into the subject as prescribed by the syllabus to the students. Some of the key equipments include Digital Storage Oscilloscope, Microprocessor kits, Spectrometers, LCR Q-testers, Laser Kits, Digital I.C. Testers etc.

In addition to the curriculum study, the students are also encouraged to actively participate in various workshops and science fests within and outside our college. Many of our students have also brought honours by securing positions in inter-college competitions. To keep them abreast with the latest fields of research, seminars and lectures by distinguished professors and scientists from various institutes are organized by the department.

The Department of Physics has a society named “QUBIT”. Last year, the society organized its annual fest “Z-Gravity” in the month of January, 2012. The two day event was a perfect blend of academic and extracurricular events. The 1st half on each day consisted of lectures by eminent professor from IIT Delhi and Department of Physics, University of Delhi, and the later half had various events like quiz competitions, debate, powerpoint presentations, etc,. All these events saw huge participation from various colleges and institutes of Delhi. The winners and runner-ups of all the events were rewarded with attractive prizes. By all accounts the event was a big success and achievement.

The laws of physics apply from smallest sub-atomic particle to the largest galaxies. Thus the application of discoveries in physics to the solution of modern day complex technological problems offers wide areas in which physics students can make important contributions. With a bachelor’s degree in Physics, the students can pursue Masters in Physics or Electronics offered

by various universities such as University of Delhi, Jamia Milia Islamia, Indian Institute of Technology, Pune University, Punjab University and many more. The Department of Physics and Astrophysics, University of Delhi also offers an integrated M.Tech program in Nuclear Science and technology as well as Nanotechnology. Apart from this there are many institutes such as IISC, IIAP, IMSC, HRI and others which offer integrated Ph.D programs for graduates in Physics.

SYLLABUS STRUCTURE		
SEMESTER I PHHT 101: Mathematical Physics-I PHHT 102 : Mechanics CHCT 101: Chemistry ENAT 101: Technical Writing & Communication in English -- Physics Lab I CHCP 101: Chemistry Lab I	SEMESTER III PHHT 307: Mathematical Physics-III PHHT 308: Microprocessor and Computer Programming PHHT 309: Thermal Physics PHHT 310: Mathematics-I -- Physics Lab III PHHP 308: Microprocessor and Computer Lab	SEMESTER V PHHT 515: Mathematical Physics-V PHHT 516: Quantum Mechanics PHHT 517: Atomic and Molecular Physics PHHT 518: Electronic Devices -- Physics Lab V -- Physics Lab VI
SEMESTER II PHHT 203: Mathematical Physics-II PHHT 204: Oscillations and Waves PHHT 205: Electricity and Magnetism PHHT 206: Digital Electronics -- Physics Lab II PHHP 206: Digital Electronics Lab	SEMESTER IV PHHT 411: Mathematical Physics-IV PHHT 412: Optics PHHT 413: Mathematics-II (Analysis and Statistics) PHHT 414: Numerical Analysis -- Physics Lab IV PHHP 414: Numerical Analysis	SEMESTER VI PHHT 619: Electromagnetic Theory PHHT 620: Statistical Physics PHHT 621: Solid State Physics PHHT 622: Nuclear and Particle Physics -- Physics Lab VII -- Physics Lab VIII

In addition, there shall be one qualifying paper in Environmental Studies offered in Semester II.



DEPARTMENT OF POLYMER SCIENCE

- Faculty:**
1. **Dr. S.K.Shukla**, M.Sc., Ph.D. (Gorakhpur Univ.) (*Teacher-In-Charge*)
 2. Dr. Susmita Dey Sadhu, M.Sc., Ph.D. (IIT Khargpur)
 3. Sh. Sidharth Sirohi, M.E(DCE) (*On leave*)























B.Sc. (Hons.) Polymer Science course is running only in this college of University of Delhi since 2004. The course is designed to provide adequate opportunities for students to learn polymer Synthesis, Processing, Characterization and Testing of Plastics, Rubbers, Fibres and their composites. At the end of 2nd year and 3rd year, the students are also sent for two months industrial training.

Polymer Science Department has well-equipped laboratories to train the students with synthesis, processing, characterization and testing of polymers. The laboratories are having all the latest facilities and instruments to meet the requirement of the experiments up to the mark. Apart from the syllabi experiments, students are also trained to expertise in handling, maintenance and trouble-shooting of various equipments in the laboratories. Some of the important instruments include Fourier Transform Infrared Spectroscopy (FT-IR), Injection Molding, Compression Molding, Two-roll mill, Single Screw Extruder, Universal Testing Machine, Ball Mill, Impact tester, Oscillating Disc Rheometer, DIN Abrader, MFI tester, Flammability tester, Heat Deflection Temperature, Vicat Softening Point, Viscometers, Hardness Testers, Opacity Tester, Image Analyzer, Carbon Content Measuring Apparatus, etc.

The department instituted a society of polymer science students known as ‘PEARLS-Polymer Educational and Research Liberal Society’ in 2007 with the objective to enhance industrial interaction through visits, seminars, symposiums, workshops and nurturing talent of students by formal and informal ways. Recently, **IPI** student chapter has been opened up at BCAS by chairperson IPI Delhi chapter and other dignitaries. Its main objective is to promote the plastic awareness and increase the Academic- Industry collaborations.

Students are encouraged to participate in various inter-college activities. Every year, our students participate in national workshops and seminars. This course provides various career advancement opportunities after graduation.

Representative Opportunities:

Academic Institutes for Higher Studies	Polymer Industries
<ul style="list-style-type: none">  M. Tech. in Polymer Technology from IITs; Delhi College of Engineering, DU; Department of Chemical Technology, Bombay; Sardar Patel University, Vallabh Vidyanagar and CIPET, Chennai.  M.Tech. in Nanotechnology from University of Delhi; Amity University and GGSIP University, Delhi.  M.Sc. in Polymer Science from Sardar Patel University, Gujarat; Meerut University; University of Madras and Kottayam University, Kerala.  M.Sc. in Material Science from Mohan Lal Sukhadia University, Udaipur, Rajasthan.  M.Sc. in Environmental Science from University of Delhi; Thapar University, Patiala and JNU etc.  Post Graduate Diploma in Packaging from Indian Institute of Packaging (IIP), New Delhi.  Post Graduate Diploma in Footwear Designing from FDDI, Noida.  Ecole Centrale de Nanes and University of Rennes, France  London Metropolitan University (U.K.). 	<ul style="list-style-type: none">  Asian Paints  Plus Polymers Pvt. Ltd.  M. G. Polyblends  Jubilant Organosis  Indian Oil Corporation Ltd.  Relaxo Footwear Ltd.  Reliance Industries  Vee-Kay Polycoats  GAIL  Pearl-Pet  Flex India Ltd.  Premier  Polyfilms

SYLLABUS STRUCTURE		
SEMESTER I 101: Introduction to Polymer Science 102: Raw Materials of Polymers 103: Chemistry-I(Minor) 104: Technical Writing and Communication in English Practical-Polymer-I Practical-Chemistry-I	SEMESTER III 301: Polymer Rheology 302: Polymer Additives 303: Chemistry III(Minor) 304: Physics(Minor) Practical-Polymer-III Practical-Chemistry-III Practical-Physics	SEMESTER V 501: Polymer Characterization 502: Polymer Degradation 503: Applied Polymer Science 504: Speciality Polymers Practical-Polymer V Project Work*
SEMESTER II 201: Polymer Chemistry 202: Unit Operations 203: Chemistry-II(Minor) 204: Applications of Computers in Chemistry Practical-Polymer-II Practical-Chemistry-II Practical-Computers	SEMESTER IV 401: Polymer Processing & Mold Design 402: Polymer Testing 403: Organizational Behaviour(Minor) 404: Maths(Minor) Practical-Polymer-IV	SEMESTER VI 601: Polymer Blends and Composites 602: Fiber Science and Rubber Technology 603: Polymeric Nanomaterials 604: Recycling & Waste Management Practical-Polymer-VI

In addition, there shall be one qualifying paper in Environmental Studies offered in Semester II.



DEPARTMENT OF BIOCHEMISTRY

Faculty: Dr. Anita Sondhi, Ph.D. (D.U.) (*Teacher-In-Charge*)

Biochemistry is an exciting body of knowledge, an endeavour into a field which enriches the study of the human system. 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.

Recognising its importance, the department has been nominated as one of the four departments to receive funds under the Star College scheme. Over the years, 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 cater to the needs of the students. It familiarizes the students with the latest and the most sophisticated equipments like Trans Illuminators, Spectrophotometers (UV- Visible and Visible), Electrophoresis apparatus (Vertical, Horizontal, Slab, Paper, Rod) Thin layer chromatography, Gel filtration chromatography, auto titrator and the use of equipments like Autoclave, Centrifuge, Laminar airflow chamber and pH meter.

Some of the sectors/industries in which Biochemists work include Biotechnology, Food, Health and Beauty Care, Medical Instrument companies, Chemical Manufacturing companies, Research Companies and Laboratories, Scientific Laboratories, Agriculture and Fisheries, Hospitals, Universities, Blood Banks, Forensic Science, Overseas Development, Diagnostic Laboratories, Cancer Research institutes and Environmental and Pollution Control Organization.

The Department of Biochemistry trains its students in such a manner that they understand the practical implications of the subject in a wide spectrum of fields. We encourage students to take up projects in laboratories/facilities outside the college for greater exposure. So many times, these turn out to be the career defining moments.



DEPARTMENT OF BIOLOGY

- Faculty:** 1. **Dr. N.S. Abbas**, M.Sc.,Ph.D.(D.U.) (*Teacher-In-Charge*)
2. Dr. A.K. Bali, M.Sc, M.Phil, D.Phil (Univ. of Sussex, U.K.)
3. Dr. Sujata Bhardwaj, M.Sc., Ph.D. (MDU)

In the present era of Biology, the integrated approach to use the knowledge gathered in various branches of Life Sciences has helped to unravel many of the mysteries of living organisms. The integrated approach is quite evident in the various courses taught in the department. The instruction as well as practical training related to General Biology, Microbiology, Genetics and Biomedical Sciences are imparted in the department. The emphasis during the practical training is to develop the outlook for observations, to perform the experiments meticulously and to analyze the results of the experiments. The practical course also ensures that the concepts learnt by the students during the theory sessions are tested by way of experiment.

The well equipped laboratory has the modern instruments like Binocular microscopes, Electronic balances, Electrophoresis unit, B.O.D. incubator; PC based UV-Visible spectrophotometer, Autoclaves, Laminar Flow, Growth chamber, Digital blood cell counter, Digital haemoglobin meter, Digital blood analyzer, pH meter etc.



DEPARTMENT OF CHEMISTRY

Faculty: 1. **Dr. Lalit Kapur**, Ph.D. (D.U.) (*Teacher In-Charge*)
2. Dr. Balaram Pani, Ph.D. (J.N.U.)
3. Dr. Ramesh Kataria, Ph.D. (K.U)

One of the leading subjects in the pure sciences, chemistry offers the students an ideal platform to begin exploring the composition & structure of matter. The emphasis at the under-graduate level is to give a broad coverage of most common branches of Chemistry in keeping with the inter-disciplinary nature of the subject today.

The laboratory is well equipped with sophisticated instruments. Some notable instruments are 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. It also has a room especially designated for sophisticated balances. Besides these, there is an instrumentation laboratory for carrying out experiments in physical chemistry and analytical techniques. Titrations and salt analysis are some of the aspects that form the basis of the lab.

Modern sophisticated equipments are being added every year. The students are individually encouraged to perform experiments and handle the instruments. After graduation, students are offered lucrative and attractive career options in Research & Development and managerial positions in Pharmaceuticals and chemical industries.



DEPARTMENT OF HUMAN COMMUNICATION

Faculty: Dr. Madhulika Bajpai, M.Phil., Ph.D. (D.U.) (*Teacher-In-Charge*)

Department of Human Communication as the name suggests deals with the topics related to aspects of human interaction not only on an individual but also on societal and most importantly industrial/organizational levels as well. The papers taught in the Department help in imparting knowledge to the students in the fields of “women, science and society”, “organizational behaviour”, and “principles and functions of management”.

All these papers prepare our students for today's ever evolving world of communications and carving a professional niche for themselves. These papers have helped the alumni to score highly at the management tests and perform impressively in their respective careers. Communication also plays a substantial role beyond the scope of career. It is an art which assists all of us greatly for putting across our view points with clarity.

As it is said, “A team leader is as good as the team she/he leads.” Human interaction essentially is a symphony of communications which we use to get across our view points. Communication is not constrained by the channel used to correspond but by the ability of the source. It is in this crucial domain that we endeavour to strive for pupils' improvement.



DEPARTMENT OF MATHEMATICS

Faculty: 1. **Dr.Ragini Jindal**, M.Sc.(D.U.), Ph.D. (CCSMeerut)(*Teacher- In- Charge*)
2. Ms. Neeru Sharma, M.Phil.(D.U.)(*On leave*)

Use of mathematics is pervasive in modern industry and its knowledge is indispensable in almost every sector of job market, including engineering, food industry, telecommunications, computer services and software, chemicals and pharmaceuticals.

Mathematics being the fundamental and integral part of sciences is taught in all courses of our college. The curriculum has been uniquely designed to cater to the needs of each course. It is well equipped with all essential mathematical theories, computational techniques and the latest computer technology to help solve scientific, engineering, biological and business problems.

The objective of the department is to provide the fundamental aspects of basic and applied concepts of various branches of mathematics. It also prepares the students for today's ever evolving world of competition and carve a professional niche for themselves.



THE LIBRARY

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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 21000 Books, 200 Bound volumes of Journals. The Library also possesses a rich collection of Non-print materials including ebooks, CDs, DVDs etc. 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)

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 to 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 a wireless 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 programs and information literacy program for the students. Besides these, in order to cultivate reading habits amongst students, Book Exhibitions and Displays are also organized on a regular basis. Our library increases in size every year to accumulate the expanding horizons of knowledge for the students.

CO-CURRICULAR ACTIVITIES

Various National Conferences, Seminars, Workshops and other co-curricular activities are organized in the college to promote holistic development of students and to provide them comprehensive opportunities to explore.

WORKSHOP ON “EXPERIMENTS & RESEARCH APPLICATIONS WITH NATIONAL INSTRUMENTS LABVIEW”

Design and development cycle of a product has moved into the virtual world of software-based design and development. Software technologies, upon which one must build foundation, are advancing at an incredibly fast rate. Scientists and engineers all over the world are using software and a personal computer as a means to a better end for research applications. Realizing the importance of such advanced technologies, Department of Instrumentation and Department of Electronics organised a two day workshop on Experiments & Research Applications with National Instruments LabVIEW in collaboration with Trident Tech Labs (Academic Partners National Instruments) on 2-3 February, 2012.



Interactive Tutorial Session on day one



Hands-on session being conducted in Computer Science Laboratory

LabVIEW (Laboratory Virtual Instrumentation Engineering Workbench) is a graphical development environment from National Instruments, a global leader in providing test and measurement systems for engineers and scientists. It is being widely used in industry and academia to rapidly build virtual interfaces for test and measurement analysis, data acquisition, instrument control, and data logging. It is extremely useful as a tool in articulating and implementing any abstract design idea. The objective of this workshop was to provide a hands-on training in modelling, designing, and customizing real time applications with LabVIEW.

This two day event witnessed huge participation from faculty and students not only from various colleges of University of Delhi but also Netaji Subhash Institute of Technology, Delhi Technological University and various colleges of Indraprastha University. More than eighty five faculty members and students were in attendance at the workshop.

The workshop was inaugurated in the esteemed presence of Prof Sreenivas, Director USIC, University of Delhi, Dr. Avinashi Kapoor, Head Department of Electronic Science, University of Delhi and our Principal Dr. Jai Prakash. The dignitaries shared their illuminating words with the audience and emphasized that such events were necessary to remain abreast with the latest technologies and bridge the gap between academia and industry. The two day workshop covered

an interactive tutorial session in which the audience was introduced to the LabVIEW environment, its features, dataflow programming, concept of Modular programming, implementation of VIs, troubleshooting and debugging of VIs, acquiring, analyzing and storing of measurement data and common design techniques and patterns were discussed. The participants were also given hands-on session on the tool.

There was a demonstration of the real time applications which included integration of various hardware devices with LabVIEW using data acquisition cards(DAQ), Signal acquisition and processing applications like design of a temperature control system, speed measurement and control of DC motor, three terminal device analysis, DSP etc were demonstrated. Participants were made aware of various types of DAQ cards available and how to choose the one which meets their specific requirements. An Audio Visual Session in the workshop demonstrated the research and industrial applications of LabVIEW.

WORKSHOP ON ‘TRAINING ON EXPEYES DESIGN KIT’

Bhaskaracharya College of Applied Sciences in collaboration with Inter University Accelerator Center (IUAC), New Delhi organized a one day workshop on *“Training on ExpEYES Kit”*. An Experiment for Young Engineer and Scientists (ExpEYES) kit is developed under the PHOENIX project of IUAC. It is a hardware & software framework for developing science experiments, demonstrations and projects and to learn science and engineering by exploration. It is capable of doing real time measurements and analyzing the data in different ways. This project is based on Free and Open Source software, mostly written in Python programming language. The hardware design is also open. A science laboratory at home becomes an affordable idea, with ExpEYES, and the structured design supports adding more experiments without much effort.



A full day workshop was held in the college on 28th January 2012 and about 35 faculty members of various colleges of University of Delhi participated in it. The event was inaugurated with the lamp lighting by Dr. Amit Roy, Director of IUAC, followed by his lecture on the ExpEYES kit, highlighting its usefulness and potentials as a cost effective measurement tool. The hands on experience and experimental session were arranged in the computer laboratory of the college under the supervision of following resource persons, Dr. Ajith Kumar, Mr. V. V. V. Satyanarayan and Mr. Deepak Munda from IUAC. Many Experiments from various disciplines of Physics and Electronics were performed and interfaced with computer with the help of the kit. In the workshop, basic training on handling the kit was imparted by performing simple real world experiments. An insight in developing simple computer programs for documenting measurements as data files and analyzing them was



also provided in the workshop. Overall the workshop was an enriching experience for the participants. The college deeply acknowledges IUAC for its contribution in making this workshop a great success.

A LECTURE ON “INTRODUCTION TO SAVINGS AND INVESTMENTS”

A Lecture was organized for students and staff of the college on “**Introduction to Savings and Investments**” in collaboration with Securities and Exchange Board of India (SEBI) on 7th January, 2012. The resource person was Mr. Mukul Jain from SEBI. Our college Principal Dr. Jai Prakash welcomed him. Mr. Jain delivered a lecture on various options and key features of various plans of saving schemes. He also discussed various problems faced by an investor and government policy to tackle them. The program ended with the vote of thanks by Dr. Anil Bali.



ENTREPRENEURSHIP AWARENESS CAMP

A three day ‘Entrepreneurship Awareness Camp’ (EAC) was organized in collaboration with Innovation and Entrepreneurship Development Centre(IEDC), Acharya Narendra Dev College from January 4-6,2012 at BCAS. This camp was sponsored by National Science and Technology Entrepreneurship Development Board (NSTEDB), DST. A total of 74 students participated in EAC. The Chief Guest for the function was Dr. Anita Gupta, Joint Director NSTEDB,DST. The Guest for Honour for the occasion was Mrs. Kalpana Sinha, Senior Consultant, National Entrepreneurship Network (NEN). The activities include Motivation talks by First Generation Entrepreneurs by Mr. Sanjeev K Pandey, Mr. Jatin Modi and Mr. Sudhir Zotshi. Besides this, lectures by Mr. Sanjay Kapoor, Mr. Sanjay Vohra and Mr. Lokender Rao Jadav were delivered. During the camp, the participants visited Technical Services Centre, NSIC, Okhla where they were introduced to various plans and entrepreneur activities. Overall, the camp was a great success.



INSPIRE SCIENCE CAMPS

Last year our college organized two INSPIRE Science camps during the months of July and October respectively. The INSPIRE ‘Innovation in Science Pursuit for Inspired Research’ camp was for XI class science stream school students who had scored CGPA 9.2 or more in their X standard. The INSPIRE program was sponsored by DST with an aim to communicate to the youth of the country the excitements of creative pursuit of science and attract talent to the study of science at an early stage. Over 100 students from over 20 different schools participated in each camp. Professors and scientists from various scientific laboratories and organizations such as DST, Vigyan Prasar, NISCAIR, Department of Biotechnology, JNU, NPL, Shriram Institute

of Industrial Research, etc. delivered their lectures to inspire young students towards the field of science and research. Under the guidance of our Principal and with the help of various faculty members, college also organized various laboratory exercises where students got hands on training by performing scientific experiments in different departments of the college. They also



learnt to recycle paper using paper recycling unit. During the camp, students visited various renowned institutions/organizations such as IIT Delhi, IUAC and DRDO. During the camp, various activities such as science quiz, Sudoku and collage competition were organized for the students. During the valedictory functions of the INSPIRE camps, Prof. Deepak Pental, Ex- Vice Chancellor, University of Delhi and Prof. S.C. Batla, Dean, Faculty of sciences, University of Delhi delivered talks and gave away prizes and certificates to all the prize winners of the competitions.

NATIONAL SYMPOSIUM ON “INNOVATIONS IN POLYMERS TOWARDS SUSTAINABILITY AND GROWTH”

A two day national symposium on “**Innovations in Polymers Towards Sustainability and Growth**” was organized by the Department of Polymer Science, BCAS in association with National Academy of Sciences and Polymer Processing Academy on March 2-3, 2012 in the college premises. Eminent scientists and professionals from various organizations and from a number of plastic industries delivered lectures in the symposium. The chief guest of the symposium Dr. R.K. Khandal (Director, Shriram Institute of Industrial Research), Prof. A. K. Bakhshi (Vice Chancellor, U.P.R.T. Open University, Allahabad) and Prof. V. P. Sharma (National Academy of Sciences) and the chairman for the inaugural ceremony Prof. Monika Datta (Chairman, Governing Body, BCAS) along with the Principal of the college Dr. Jai Prakash inaugurated the seminar.



The 1st session was chaired by Prof. S.M.S. Chauhan, Head, Department of Chemistry, University of Delhi and the main attraction was the lecture of Dr. Khandal on ‘Innovation, Sustainability and Growth’ and the other lecture by Prof. Bakhshi on ‘Conducting Polymers’. The 2nd session was chaired by Prof. A. K. Ghosh, from IIT, Delhi and the lectures were delivered by Prof. N. B. Singh from Sharda University and Dr. P. Thavamani from IRMRA, Mumbai.

The second day also had two sessions. The 1st session was chaired by Dr. V. B. Lall, SCJ Polymers and there were two lectures on PU chemistry by Dr. Ruchin Shrivastava from Bayer Material Science Pvt. Ltd. and by Dr. Joseman Jacob from IIT Delhi. The 2nd session was chaired by Prof. G. L. Verma, Head, Department of Applied Chemistry and Polymer Technology, Delhi Technological University. The attractions of this session were the lectures of Dr. Kinkar Mukherjee from Reliance Industries and Dr. B. D. Malhotra from Delhi Technological University.



We thank all our sponsors, CSIR, Bayer Material Science Pvt. Ltd., Progressive Polymers, Sachdeva Polycolor Pvt. Ltd. and VeeKay Polycoats for providing financial assistance and support for the seminar. We thank all our speakers, chairpersons and delegates for accepting our invitation and making the occasion a special one. A reasonable participation of students and faculties from various institutes like ShriRam Institute for Industrial Research, Delhi

Technological University, University of Delhi, GGSIP University and Netaji Subhas Institute of Technology added value to the seminar. We are very encouraged by a huge response from various plastic Industries.

SHORT TERM COURSES

Various short term courses are organised in the college every year to enhance the knowledge and skills of the students in recent trends and technologies of their respective fields. During these courses, the students are encouraged to understand and work upon real life problems. This helps them to integrate their theoretical aspect with practical knowledge. Students from various streams can take part in these courses. Eminent speakers from various reputed educational institutions and industries are invited to deliver lectures on various topics of the syllabus. The students are being awarded with certificates after the successful completion of these courses.

SHORT TERM COURSE ON EMBEDDED SYSTEMS

Department of Instrumentation organized a short term course on '*Embedded Systems*' from September – December 2011 in the supervision of Dr. Geeta Bhatt and Ms. Poonam Sharma. The need for professionals in embedded field is rising tremendously, as the next generation of hardware and software leverages on embedded technology to become more manageable, adaptable, and flexible. This course offered a range of topics that are of immediate relevance to the industry and trained the students in a way suitable for the companies in embedded system development. This course had been designed keeping in mind the advances in hardware and software technologies and the blurring of the boundary between them.

The course was open to all students of B.Sc(H) Instrumentation, B.Sc(H) Electronics, B.Sc(H) Physics. Various modules like C language, basic electronics, 8051 microcontroller, PIC microcontroller and Transducers were covered by the eminent faculties of different institutes like Netaji Subash Institute of Technology and National Physics Laboratory. Emphasis on hands on was given, students completed various hardware based projects that can be implemented in day today's life, for instance Speed Control of fan through microcontroller, Light Intensity Meter, Strain Gauge based precision weighing and many more.



CERTIFICATE COURSE IN RUSSIAN LANGUAGE

The College is running a one year certificate course in Russian Language. Department of Slavonic & Finno-Ugrian Studies, University of Delhi, awards the certificate. Details regarding number of seats and course fee etc. can be obtained from the college office.

BETTER PROCESS CONTROL SCHOOL

The first international "Better Process Control School for Manufacturers of Low Acid Foods" was conducted at Negombo, Sri Lanka from November 21-23, 2011 in collaboration with the US Food and Drug Administration (FDA), India office under the coordinatorship of Dr. Shalini Sehgal, Associate Professor, Department of Food Technology and co-coordinatorship of Dr. Rizwana, Associate Professor, Department of Food Technology. Seventeen participants were trained by Mr. T. K. Datta (renowned packaging expert), Dr. Rizwana and Dr. Shalini Sehgal on various aspects of Aseptic packaging in conjunction with the regulations set forth in 21 CFR.

UPCOMING SHORT TERM COURSE

The Department of Biomedical Science of Bhaskaracharya College of Applied Sciences and Acharya Narendra Dev College, University of Delhi jointly are starting a new add-on course in '**Bioinformatics and *in-silico* Drug Discovery**' from July-November, 2012 .

The main aim of this 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. This course includes both lectures and hands-on sessions on biological databases, sequence and microarray analyses, phylogenetic analysis, importance of Bayesian statistics, molecular modelling and protein-drug docking.

COLLEGE ACTIVITIES

PLACEMENT AND CAREER CONSELLING CELL

The college has its own Placement Cell which acts as a bridge between students, Employers and Central Placement Cell of the Delhi University. It helps fresh graduates to explore placement opportunities in the vast corporate and research oriented global world. It provides a platform for students to interact with various academia, organizations and R&D Departments for their summer internships, projects and training programmes. A Placement Brochure is also released every year to achieve this aim. The college also has its own career counselling cell with an aim to strengthen the core competencies of students and working as a platform to mould them in keeping with the requirements of the corporate world. Students have been well-placed in various esteemed institutions and industries like WIPRO, DELL, Genpact, ATS, ITC, MIE Pvt. Ltd. and APLAB with a good starting package.

RESONANCE: COLLEGE MAGAZINE

The College brings out its magazine 'Resonance' every year. The College magazine captures every thought, idea, vision, aspiration and achievements of students and staff and provides them a platform to share their purviews and ameliorate others with their creative writing skills.



INNOVATION PROJECTS

Under the scheme "Innovation Projects from Colleges" of University of Delhi, various Innovation projects are conducted in the college with an objective of encouraging trans-disciplinary research and to inculcate research aptitude, skills and synergy among students and faculty.

GANDHIAN STUDY CENTRE

Mahatma Gandhi- He is a father of our nation and he developed a method of action based upon the principles of courage, nonviolence and truth called Satyagraha. He had significantly contributed to make India free from British rule through nonviolent resistance.

Mahatma Gandhi's Mantra

**Happiness depends on what you can give,
Not what you can get.**

Keeping in view of this beautiful quotation, "Gandhian Study Centre" familiarizes students with the Gandhiji's literature, philosophy, and methodology by organizing various lectures, quiz & debate competitions and seminars.



WOMEN DEVELOPMENT CELL

The Women Development Cell was established in 2008 at our college with the objective to create awareness among the students and the staff, apart from maintaining congenial working environment for all the women employees and students and thus establishing a campus free of

all the gender biases and prejudices. For this purpose, the cell organizes various activities like counselling programmes, Seminars, competitions, debates, street plays etc.

NATIONAL SERVICE SCHEME (NSS)

The college unit of NSS has been actively involved in many social service activities throughout the year. The NSS unit regularly organizes blood donation and medical checkup camps in which a large number of volunteers take part. Our student volunteers, very enthusiastically, participated in various activities related to many social issues, organized by the University of Delhi and other Non-Government Organizations. The



activities organized by NSS includes workshop on sensitization of urban youth on adverse child sex ratio and combating sex selection, programs promote awareness amongst the young generation about AIDS, campaign against smoking, campaign against violence and terrorism, etc. More than eighty students of the college contributed as volunteers to Commonwealth Games held in Delhi in October 2010. This was a great opportunity for volunteers to show their talent.

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 Cricket ground, Volleyball, Basketball, Badminton and Lawn Tennis courts. We also have facilities for indoor games like Carrom, Chess and Table Tennis. Various sports



activities are organized in the college and students are also encouraged to participate in Inter-College and Open tournaments. 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.

EXTRA CURRICULAR ACTIVITIES

“We in Bhaskarcharya College of Applied Sciences believe that the education is not mere learning of many facts and figures but 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.

SRIJAN is an annual inter-college fest. It was held for two days on February 7-8, 2012. The fest was brilliantly organized. Each event was having its own speciality. Famous bhangra group “Rangla” was invited as star performance, which was thoroughly enjoyed by everyone. Students of various colleges came and participated in different activities such as Rangoli, Debate, Extempore, Band, Funky Hairstyle, Face Painting, Dancing, Singing and many more. It was a huge success.



This year “**Songs of India**” an inter college choir competition was also organized by the ECA committee and the Music Club of the college for the first time in our college in association with the Culture Council, University of Delhi on September 24, 2011. Students from various colleges showed their talents and speciality. Every performance was mesmerizing. It was a grand event.



The students are encouraged to participate in various extracurricular activities organized by different colleges and institutions throughout the year. The students participate and also bring laurels for the college.

In addition to these activities, college also organizes Independence Day function and Annual Day function.

COLLEGE CLUBS

In order to enhance the co-curricular activities, the college has instituted various clubs with an objective to provide comprehensive opportunities to the students to explore so that they can improve the quality of life of the human race. The clubs organize several workshops, seminars, lectures by eminent personalities to promote their academic and extra-curricular interests. **To become a member, the student has to fill a separate form and pay a fee of Rs.100/-per club annually. Rs.100/- will also be charged for the respective departmental society every year.**

The profiles of some of the prominent clubs are:

ASTRONOMY CLUB

“Universe- A mystery yet to unveil”

Astrophysics is the branch of science that focuses on the physical aspects of astrology and cosmos science and tries to study and find answers to the various unsolved problems of the astrological field. Astrophysics has a wide range of applications in various space research institutes. Hence, to motivate students to choose astronomy as a subject, the astronomy club of our college organizes several events every year. Last year, poster-making competitions and visits to Nehru-Planetarium were organized. The members of the club also attended a lecture on “Unravelling the dark side of the universe” by Prof. Priyamvada Natrajan at the Delhi University convention hall on 3rd January, 2012. In the next academic year, the club is planning to bring out a newsletter on astrophysics for the students. Besides this, the club is also planning to organize sky watching sessions and more interactive talks on astrophysics.



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. The club motivates the students to participate in various intra and inter college solo and group dance competitions. The club is also actively involved in organising various Dance related activities in the college premises. The college dance group “Xquisite” 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. Debate enables students to express their views effectively and to respond cogently to arguments with which they disagree.



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, painting competition etc.



ECO CLUB

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 Eco Club organizes several events. Every year, this club commemorates International ozone day, on 21st September 2011. Last year, Dr. Chirashree Ghosh, Associate Professor, Department of Environmental Studies, enlightened the students with the importance of Ozone layer Depletion by giving seminar on the topic “Demistifying Ozone: The Good, Bad and the Hole”. To increase awareness among students, posters, stickers and booklets were distributed. This club also trained the students with the importance and usage of scrap paper by organizing workshops on paper recycling. In our college Paper recycling unit is also installed and routinely about 1kilogram of scrap paper is recycled. Last year, an effort was made to make herbal garden in the college, for that seeds of herbal plants which include thyme, chervil, basil, parsely, chives and dill vilmorin were procured and planted.

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. The club showcased movies in the AV room of the college.

LITERARY CLUB

Benjamin Franklin, an American statesman, scientist and philosopher, has written, "Reading makes a full man, meditation a profound man, discourse a clear man." 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 livable and worthwhile.

MUSIC CLUB

“Music is the soul of heart ”.

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

Last year “Songs of India” an inter-college choir competition was organized by the music club and ECA committee for the first time in association with the Culture Council, University of Delhi on October 24, 2011. Students from various colleges showed their talents and speciality. Each and every performance was mesmerizing. It was a grand success.



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

The students participated and performed in various inter college music competitions to represent the college. Many students participated and also brought laurels for the college.

Our students also represent the college in “Songs of India” a choir competition held during “Antradhvani-2012” Delhi University cultural fest and secured III position. One of the student also got “**outstanding performance award**” in Antradhvani-2012.

MOUNTAINEERING AND TREKKING CLUB

“Let us reach closer to the nature and explore it”.

Mountaineering and Trekking Club has the motto to reach closer to the nature. The 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.

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.

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. Last year; the club invited eminent yoga experts from Bhartiya Yog Sansthan and lectures-cum demonstrations on ‘Yog aasanas requisite for tension relief’ and ‘Pranayam’ were organized. Besides these, an inter college yoga competition and a one day yoga camp was also organized in the college.

COLLEGE RULES

1. **Internal Assessment:** 25% of the total marks in each theory paper in any course will be awarded on the basis of internal assessment and remaining 75% marks for the Semester University Examination. Such assessment would be based on tutorial work/ class presentation and attendance. These marks will be added to the Semester examination marks for determining the division of the students. The internal assessment will be based on the Ordinance VIII E of University of Delhi.

Basis	Weightage (25%)	Maximum Marks
• Assignment(s)/Presentation(s)/Project(s)	10%	1
• Class Test(s)/quiz(s)	10%	0
• Attendance(Lectures including Interactive Periods)	5%	1 0

Further, the credit for regularity in each paper based on attendance shall be as follows:

Attendance	Maximum Marks (5)
85 % and above	5
80 % or more but less than 85 %	4
75 % or more but less than 80 %	3
70 % or more but less than 75 %	2
67 % or more but less than 70 %	1

2. **Attendance :** Subject to the provisions of Ordinance VII, the candidate is required to attend not less than two third of theory and practical classes separately in all the subjects taken together in the College in each semester so as to appear in the University Semester Examination.
3. **Submission of Examination Forms:** Candidates desiring to appear in the examination within the permitted span period (For all the three year under-graduate courses under the Semester scheme, the span period to complete the course will be 6 years from the year of admission in 1st Semester as per University of Delhi rules) and otherwise eligible are required to fill up the prescribed Examination Form which they can collect from the College. They are required to deposit the same along with the prescribed fee at the College within the dates prescribed.
4. **Class Timings:** The Classes are held between 9.15 a.m. to 5.30 p.m. from Monday to Saturday.
5. **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. 50/-.
6. **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.
7. **Hostel:** The College does not provide hostel facility. Outstation students are required to make their own arrangements for boarding and lodging.

8. **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.
9. **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 or guidelines.
10. **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) in the library.
 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 any 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.**

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 Convenor, 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 worth Rs. 1000/- is given every year to the topper of B. Sc (H) Electronics in the memory of one of our student Deepika.

The Best Student Award: The college gives this award for the all round performance of the final year student based on good academic performance 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 from various Departments.

DISCIPLINE

Gender Sensitizing Committee/College Complaint Committee: The Gender Sensitizing committee is constituted so as to evolve a mechanism for redressal of sexual harassment cases and other acts of gender based violence. Any person aggrieved in this manner may fearlessly approach this committee. This Committee also organizes lectures from field experts in order to promote a social and psychological environment which will raise awareness about gender biased issues.

Ragging: Ragging in any form is strictly prohibited. Anyone found guilty of ragging and/or abetting ragging is liable to be punished appropriately. Disciplinary action will be taken by the Principal against those who violate the rules of discipline under various University of Delhi Ordinances and UGC regulations on curbing the menace of Ragging in higher education. Students and parents are required to submit the affidavit as per Hon'ble Supreme Court guidelines. A copy is available in the office and college website. A specimen is also available in the Prospectus.

Discipline: Every student must abide by the rules and regulations to maintain discipline in the College and University. Gambling, Smoking, Drinking and other such practices are not allowed in the college premises. 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 inference in the discipline and normal working of the college.

Disciplinary action may involve warning and/or suspension from classes, or from the examinations, from college library or even from the college, or any such action as provided in Ordinances XV (D), XV(C), XV (B), respectively, of the University of Delhi.

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. The Principals of the Colleges, Heads of the Halls, Deans of Faculties, Heads of Teaching Departments in the University, the Principal, School of Correspondence Courses and Continuing Education and Librarian shall have the authority to exercise all such disciplinary powers over students in their respective Colleges, Institutions, Faculties and Teaching Departments, in the University as may be necessary for the proper conduct of the 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.
7. 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 the 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 there under by the University.

ORDINANCE XV-C: Prohibition of 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. 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.

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 of Delhi University are found guilty under this Ordinance appropriate action under Statute 15 for withdrawal of degrees conferred by the University shall be initiated.

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.

ORDINANCE XV-D : On Sexual Harassment

1. Short Title and Extent: The present ordinance is based on the Policy against Sexual Harassment by the Delhi University and seeks to maintain and create an academic and work environment free of sexual harassment for students, academic and non-teaching staff of the Delhi University. The ordinance will also apply to outsiders and residents, on the Delhi University campus, to the extent specified herein these rules and procedures.

2. Definitions:

(i) "Students." includes regular students as well as current ex-students of Delhi University.

(ii) "Teaching staff" include any person on the staff of the Delhi University or any colleges or institution affiliated to it, who is appointed to a teaching and/or research post, whether full time, temporary, ad-hoc, part-time, visiting, honorary, or on special duty or deputation and shall also include employees employed on a casual or project basis. (iii)

"Non-Teaching Staff." includes any person on the staff of the Delhi University or of any colleges or institutions affiliated to it, who is not included in the teaching staff. It includes employees who are full-time, temporary, ad-hoc, part-time, visiting, honorary, or on special duty or deputation, and employees employed on a casual or project basis.

(iv) "Member of the University." "includes all those included in categories (i)-(iii) above.

(v) "Resident." includes any person who is a temporary or permanent resident of any of the accommodations or premises allotted to an employee by the University of Delhi or by any of its affiliated colleges or institutions.

(vi) "Outsider." includes any person who is not a member of the University or a resident. It also includes, but is not limited to, any private person offering residential, food and other facilities to students, teaching staff or non-teaching staff of the Delhi University or any college or institution affiliated to Delhi University.

(vii) "Campus." includes all places of work and residence in the Delhi University or any College or institutions affiliated to the Delhi University. It includes all places of instruction, research and administration, as well as hostel, health centres, sports grounds, staff quarters and public places (including shopping centres, eating places, parks, streets and lanes) on the Delhi University campus or the campus of any college or institution affiliated to the Delhi University.

(viii)"Sexual harassment" includes any unwelcome sexually determined behaviour, whether directly or by implication and includes physical contact and advances, a demand or request for sexual favours, sexually-coloured remarks, showing pornography or any other unwelcome physical, verbal or non-verbal conduct of sexual nature.

Explanation: "Sexual harassment" shall include, but will not be confined to the following:

(a) When submission to unwelcome sexual advances, requests for sexual favours, and verbal or physical conduct of a sexual nature are made, either implicitly or explicitly, a ground for any decision relating to employment, academic performance, extracurricular activities, or entitlement to services or opportunities at the Delhi University.

(b) When unwelcome sexual advances, and verbal, non-verbal and/or physical conduct such as loaded comments, remarks or jokes, letters, phone calls or e-mail, gestures, exhibition of pornography, lurid stares, physical contact, stalking, sounds or display of a derogatory nature have the purpose and/or effect of interfering with an individual's performance or of creating an intimidating, hostile, or offensive environment.

(c) When a person uses, with a sexual purpose, the body or any part of it or any object as an extension of the body in relation to another person without the latter's consent or against the person's will, such conduct will amount to sexual assault.

(d) When deprecatory comments, conduct or any such behaviour is based on the gender identity/sexual orientation of the person and/or when the classroom or other public forum of the University is used to denigrate/discriminate against a person or create a hostile environment on the basis of a person's gender identity/sexual orientation.

3. Scope of the Ordinance:

This Ordinance shall be applicable to all complaints of sexual harassment made:

- (i) by a member of the University against any other member of the University irrespective of whether the harassment is alleged to have taken place within or outside the campus.
- (ii) by a resident against a member of the University or by a member against a resident irrespective of whether the sexual harassment is alleged to have taken place within or outside the campus.
- (iii) by an outsider against a member of the University or by a member of the University against an outsider if the sexual harassment is alleged to have taken place within the campus.
- (iv) by a member of the University, against an outsider if the sexual harassment is alleged to have taken place outside the campus. In such cases the Committee shall recommend that the University college authorities initiate action by making a complaint with the appropriate authority. Further the committee will actively assist and provide available resources to the complainant in pursuing the complaint.

ORDINANCE VIII-E: Internal Assessment

1.1. The scheme for Internal Assessment shall be followed in the regular stream only, with exclusions as per the Appendix of Information Bulletin of University of Delhi and is applicable to the students admitted from the academic session 2003-04 onwards in both undergraduate and postgraduate degree courses. This scheme of Internal Assessment shall not be applicable to the School of Open Learning and Non-Collegiate Women's Education Board. The specific Ordinances pertaining to schemes of examinations of various courses shall stand amended, mutatis mutandis, to the extent of internal assessment as laid down in this Ordinance, subject to exclusions referred to above.

1.2. Internal Assessment marks shall be shown separately in the Marks Sheet issued by the University and these marks shall be added to the annual/semester examination marks for determining the division of the student.

2. 25% of the maximum marks in each paper in undergraduate courses shall be assigned for Internal Assessment and the remaining 75% marks for the annual/semester University Examination; the time duration and other modalities of the annual/semester Examination with respect to this 75% component shall remain as per existing schemes of examination for various undergraduate courses.

2.1.1. For the Annual Examination Scheme, there shall be 10% weightage assigned to House Examinations to be conducted by each college, for all subjects in B.A., B.Com. and B.Sc. courses and all papers of the Main Subject in Honours courses. For the Semester Examination Scheme, there shall be 10% weightage assigned to Class Test(s)/Quiz(s) to be conducted by each college, for all subjects in B.A., B.Com. and B.Sc. courses and all papers of the Main Subject in Honours courses.

2.2.1. Each student shall be assessed on the basis of written assignments/tutorials as well as on the basis of project reports/term papers/seminars. There shall be 10% weightage for such written assignment; and project reports/presentations/term papers/seminars. Each student shall be given at least one written assignment per paper in each term / semester.

2.2.2. There shall be 5% weightage for regularity in attending lectures and tutorials, and the credit for regularity in each paper, based on attendance, shall be as follows:

More than 67% but less than 70% - 1 mark

70% or more but less than 75% - 2 marks

75% or more but less than 80% - 3 marks

80% or more but less than 85% - 4 marks

85% and above - 5 marks

[Medical certificates shall be excluded while calculating credit towards marks to be awarded for regularity, though such certificates shall continue to be taken into account for the purpose of calculating eligibility to appear for examinations as per the existing provisions of Ordinance VII.2.9.(a)(ii).]

3. The promotion criteria shall be as per the existing Ordinances for University Examinations, as applicable to respective courses. In addition, the same criteria shall apply to the total of the University Examination and the Internal Assessment, taken together.

4. Pass Percentage & Promotion Criteria

4.1.1 The minimum marks required to pass any paper in a semester shall be 40% in theory and 40% in Practical, wherever applicable. The student must secure 40% in the End Semester Examination and 40% in the Total of End Semester Examination & Internal Assessment of the paper for both theory & practical separately.

4.1.2 A student shall be eligible for promotion from 1st year to 2nd year of the course provided she/he has passed 50% papers of I and II semester taken together.

4.1.3 Similarly, a student (irrespective of Part I results) shall be eligible for promotion from 2nd year to 3rd year of the course provided she/he has passed 50% paper of III and IV semesters taken together.

4.1.4 Students who do not fulfil the promotion criteria 4.1.2 & 4.1.3 above shall be declared fail in the Part concerned. However, they shall have the option to retain the marks in the papers in which they have secured Pass marks as per 4.1.1 above.

4.1.5 A student who has to reappear in a paper prescribed for Semester I/III V may do so only in the semester examinations to be held in November/December. A student who has to reappear in a paper prescribed for Semester II/IV/VI may do so only in the examination to be held in April/May.

4.2 Reappearance in passed papers:

4.2.1 A student may reappear in any theory paper prescribed for a semester, on foregoing in writing her/his previous performance in the paper/s concerned. This can be done in the immediate subsequent semester examination only (for

example, a student reappearing in a paper prescribed for Semester I examination, may do so along with subsequent Semester III examination and not along with papers for Semester V).

4.2.2 A candidate who has cleared the papers of Part III (V & VI Semester) may reappear in any paper of V or VI Semester only once, at the immediate subsequent examination on foregoing in writing her/his previous performance the paper/s concerned, within the prescribed span period.

(Note: The candidate of this category will not be allowed to join any postgraduate courses)

4.2.3 In the case of reappearance in a paper, the result will be prepared on the basis of candidate's current performance in the examination.

4.2.4 In the case of a candidate, who opts to re-appear in any paper/s under the aforesaid provisions, on surrendering her/his earlier performance but fails to reappear in the paper/s concerned, the marks previously secured by the candidate in the paper/s in which she/he has failed to re-appear shall be taken into account while determining her/his result of the examination held currently.

4.2.5 Reappearance in Practical examinations shall not be allowed.

4.2.6 A student who reappears in a paper shall carry forwarded the internal assessment marks, originally awarded.

4.3 Division Criteria:

A student who passes all the papers prescribed for Semester I to Semester VI examinations would be eligible for the degree. Such a student shall be categorized on the basis of the combined result of Semester I to Semester VI examinations as follows:-

60% or more - First Division

50% more but less than 60% - Second Division

40% more but less than 50% - Third Division

5. In the case of a student who is selected as a member of the N.C.C. to participate in the annual N.C.C. Camps or is deputed to undertake Civil Defence work and allied duties, or in the case of a student who is enrolled in the National Service Scheme and is deputed to various public assignments by or with the approval of the Head of the institution concerned, or a student who is selected to participate in sports or other activities organized by the Inter-University Board or in national or international fixtures in games and sports approved by the Vice- Chancellor, or a student who is required to represent the University at the Inter-University Youth Festival, or a student who is required to participate in periodical training in the Territorial Army, or a student who is deputed by the College to take part in Inter-College sports, fixtures, debates, seminars, symposia or social work projects, or a student who is required to represent the College concerned in debates and other extracurricular activities held in other Universities or such other activities approved by the Vice- Chancellor, the following provision will apply :

5.1. A student in the categories listed above, will have to fulfil the requirement of written assignments and projects/term papers/seminars/field-work with the flexibility, however, that he/she may, if necessary, be allowed additional time for submission of written assignments.

5.2 A student in the categories listed above, who is unable to write the House Examination / Class Test(s)/Quiz(s) on account of his/her participation in such aforesaid activities, may be assessed by the College through an alternative mode. This may be done only in exceptional circumstances.

5.3 A student in the categories listed above, will get the benefit of attendance for Internal Assessment for the classes missed as per the existing provisions of Ordinance VII.

6 The University reserves the right to review, and if necessary moderate the marks in Internal Assessment in any paper/ papers in any College/ Department.

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

GENERAL RULES OF ADMISSION

1. The medium of instruction is English only for the admission forms.
2. 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.
3. **Documents required at the time of Admission:** Applicant selected for admission will be required to submit the admission form alongwith the following certificates in original along with their self-attested copies*
 - ◆ Date of Birth 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.
 - ◆ Three identical recent passport size coloured photographs.
 - ◆ OBC candidate has to submit OBC(non creamy layer) certificate in the name of 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)**

4. Candidates having passed qualifying examination in a year other than 2011 (**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.
5. Candidate alongwith his/her parent or Guardian will be required to submit affidavit of anti-ragging as per the prescribed format available in the prospectus.
6. The College does not admit or re-admit the following category of students:
 - ◆ Those who have not Passed Hindi up to class VIII, or do not qualify the Hindi test conducted by University of Delhi, and have not passed in English subject in class XII examination with minimum marks given in the eligibility criterion.
 - ◆ Those who have got compartment in any one or two subject at the qualifying examination.
 - ◆ Those whose results have been withheld in the class XII examination.
7. All the admissions are provisional, subject to the approval of University of Delhi.
8. The transfer from one course to another is ordinarily not allowed. However, if required, it may be considered according to his/her academic merit and availability of seats in the desired course.
9. 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 by Cheque in the name of the candidate only, as per the University rules given below.*
 - ◆ If the withdrawal application is submitted in the College Office on or before the last date of admission, a sum of Rs.250/- only will be deducted and rest of the fees will be refunded by Cheque in due course of time.
 - ◆ If the withdrawal application is submitted in the College Office on or before 31st July, 2012, a sum of Rs.500/- only will be deducted and rest of the fees will be refunded by Cheque in due course of time.

- ◆ If the withdrawal application is submitted in the College office on or before 16th August, 2012, a sum of Rs 1000/- only will be deducted and rest of the fees will be refunded by Cheque in due course of time.
 - ◆ If the withdrawal application is submitted in the College office after 16th August, 2012, No fee will be refunded.
 - ◆ In case of Self Financing Courses if a student withdraws on/before 16th August 2012, he/she may be refunded the fees after deducting Rs.1000/-.
 - ◆ In case of cancellation of admission due to concealment/falsification of facts, submission of false/fake certificate(s), providing misleading information by the student or for any error/mistake on the part of student, no fee will be refunded.
 - ◆ In case, if a student provisionally admitted to a course on declaration of the result of qualifying/compartamental examination becomes ineligible for admission and his/her admission is cancelled, then full fee after deduction of Rs.1000/- will be refunded provided that the application for refund of the same should be submitted in the same financial year.
 - ◆ 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.
 - * *The withdrawal rules are subject to change without any information as per Delhi University guidelines that are in force from time to time.*
10. Original documents will be retained by the college for verification. In case a candidate requires original certificates for a specific period (not more than two weeks), he/she should meet the Admission Committee with a written request only on a prescribed Performa available in the office along with the justification and proof for the same.
11. The College reserves the right to cancel admission of any student without assigning any reason thereof.
12. Personal presence of the candidate is necessary at the time of admission and cancellation of admission.
13. 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 (ies) will be done as per the University of Delhi norms. Students who get admission under open merit will not be included in the reservation quota.

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.

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).

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 Foreign Students Registry, University of Delhi, as per their norms.

Kashmiri Migrants: The wards of Kashmiri Migrants are required to register centrally to Academic Branch-I, 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/ wives of the officers and Men of armed forces including para-military personnel i.e (i) killed/disabled in an action during the hostilities (ii) died /were disabled while on duty and gallantry awardees. A concession of 5% marks in the minimum eligibility as prescribed for admission of general category candidates will be extended to candidates under this category. At the time of admission, students are required to produce Entitlement Card issued by the Record Officers of the Unit/Regiment of Armed Personnel of the Armed Forces. They are required to register themselves with the University of Delhi.

Sports/ECA: Not more than 5% of the total number of seats may be filled on the basis of sports and extra-curricular activities. The schedule of trials for admission in these categories will be notified on the College notice board. Selection will be done as per the rules of University of Delhi.

Person With Disability (PWD): 3% of total seats are reserved for such candidates. (1%each for persons with low vision or blindness, hearing impaired and loco motor disability or cerebral palsy(interchangeable, if required).The PWD candidates with not less than 40% disability shall be given a relaxation of upto 5% in the minimum eligibility in the qualifying examination. They should get registered themselves at the office of the Dean Students' Welfare. 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.

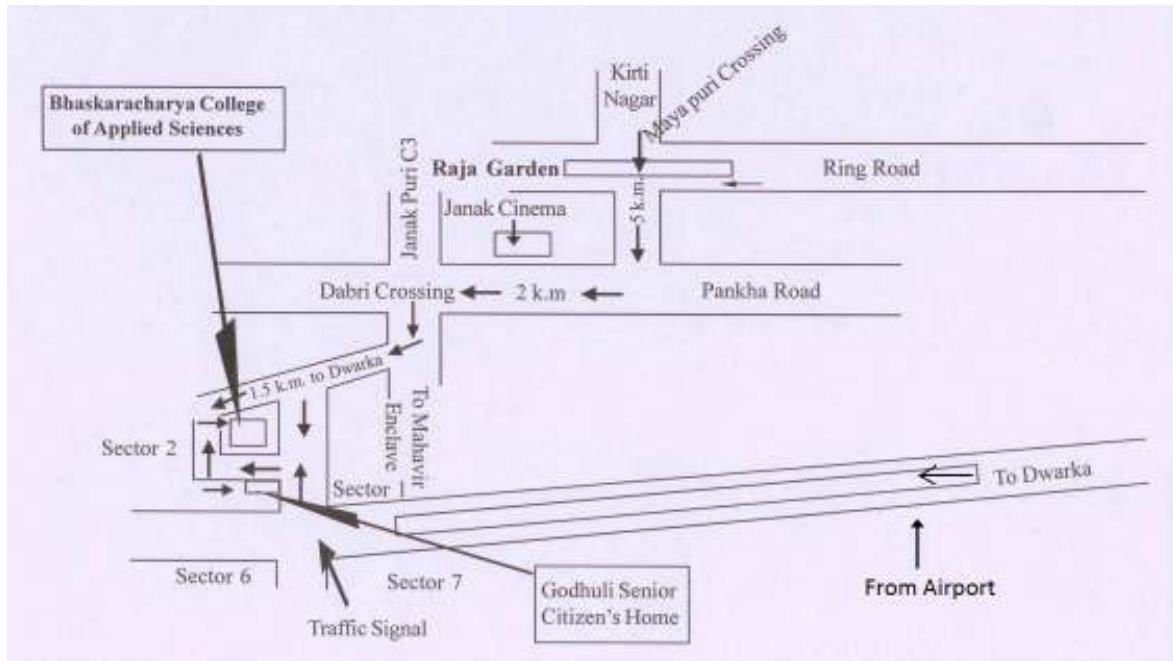
a) *The certificate should be recent and valid on the date of admission. Diagnosis should be written clearly in the certificate.*

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.*

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.



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. Student is advised to check the student development activity fee from the office.

FEE STRUCTURE

S.No	Fees Head	Amount (Rs.)
A COLLEGE FEE (Annual)		
1. (i)	Course Fee (Only for B.Sc.(H) Polymer Science & B.Sc.(H) BioMedical Science)	-10,000/-
(ii)	Course Fee (Only for B.Sc.(H) Computer Science)	- 15,000/-
B		
2.	Admission Fee (One time)	- 10/-
3.	Tuition Fee	- 180/-
4.	Magazine Fee	- 125/-
5.	Library and Reading Room Fee	- 500/-
6.	Identity Card Fee	- 50/-
7.	Garden Fee	- 200/-
8.	Water and Electricity Fee	- 150/-
9.	Laboratory Fee	- 750/-
10.	Computer Laboratory Fee	- 250/-
C UNIVERSITY FEE (Annual)		
11.	University Enrolment Fee (one time)	- 200/-
12.	University Athletic Association Fee	- 50/-
13.	University Cultural Activities Fee	- 5/-
14.	University Development Fund	- 300/-
15.	World University Service	- 5/-
16.	N.S.S.	- 20/-
17.	Special University Fee	- 10/-
D STUDENTS' FUND FEE (Annual)		
18.	Games and Sports Fee	- 200/-
19.	Function and Cultural Activities, Seminar and Educational Tour Fee	- 750/-
20.	Library Security Fee (Refundable) One time	- 500/-
21.	Security Deposit (Refundable) One time	-500/-
22.	Students' Aid Fund	- 50/-
23.	Development Fee	- 500/-
24.	Alumni Fund Fee	-100/-
25.	Placement Brochure Fee	-150/-
26.	Club Membership Fee	-100/-
27.	Departmental Society Fee	-100/-
B.Sc. (H) Biomedical Sciences/ Polymer Science (A(i)+B+C+D)		: Total Rs. 15755/-
B.Sc. (H) Computer Science (A(ii)+B+C+D)		: Total Rs. 20755/-
B.Sc. (H) Electronics/ Food Technology/Microbiology/ Physics/ Instrumentation (B+C+D)		: Total Rs. 5755/-

All the figures are in Indian Rupees

GENERAL FORMAT OF VARIOUS UNDERTAKING

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.

Undertaking from the students as per the provisions of anti-ragging

Verdict by the Hon'ble Supreme Court

1) I, (full name of student with college Roll Number.) s/o d/o Mr./Mrs./Ms. _____, having been admitted to Bhaskaracharya College of Applied Sciences, Dwarka have received a copy of the UGC Regulations on Curbing the Menace of Ragging in Higher Educational Institutions, 2009, (hereinafter called the "Regulations") carefully read and fully understood the provisions contained in the said Regulations.

2) I have, in particular, perused clause 3 of the Regulations and am aware as to what constitutes ragging.

3) I have also, in particular, perused clause 7 and clause 9.1 of the Regulations and am fully aware of the penal and administrative action that is liable to be taken against me in case I am found guilty of or abetting ragging, actively or passively, or being part of a conspiracy to promote ragging.

4) I hereby solemnly aver and undertake that

a) I will not indulge in any behaviour or act that may be constituted as ragging under clause 3 of the Regulations.

b) I will not participate in or abet or propagate through any act of commission or omission that may be constituted as ragging under clause 3 of the Regulations.

5) I hereby affirm that, if found guilty of ragging, I am liable for punishment according to clause 9.1 of the Regulations, without prejudice to any other criminal action that may be taken against me under any penal law or any law for the time being in force.

6) I hereby declare that I have not been expelled or debarred from admission in any institution in the country on account of being found guilty of, abetting or being part of a conspiracy to promote, ragging; and further affirm that, in case the declaration is found to be untrue, I am aware that my admission is liable to be cancelled.

Declared this ___ day of _____ month of ____ year.

Signature of deponent

Name:

VERIFICATION

Verified that the contents of this affidavit are true to the best of my knowledge and no part of the affidavit is false and nothing has been concealed or misstated therein.

Verified at (place) on this (day)_ of _(month)_ , _(year) _ .

Signature of deponent

Solemnly affirmed and signed in my presence on this (day)_ of _(month)_ , _(year)_ after reading the contents of this affidavit.

OATH COMMISSIONER

**Undertaking from the Parent/Guardian as per the provisions of anti ragging
Verdict by the Hon'ble Supreme Court**

1) I, Mr./Mrs./Ms. (full name of parent/guardian) father/mother/guardian of, (full name of student with college Roll Number.), having been admitted to Bhaskaracharya College of Applied Sciences, Dwarka, have received a copy of the UGC Regulations on Curbing the Menace of Ragging in Higher Educational Institutions, 2009, (hereinafter called the "Regulations"), carefully read and fully understood the provisions contained in the said Regulations.

2) I have, in particular, perused clause 3 of the Regulations and am aware as to what constitutes ragging.

3) I have also, in particular, perused clause 7 and clause 9.1 of the Regulations and am fully Aware of the penal and administrative action that is liable to be taken against my ward in case he/she is found guilty of or abetting ragging, actively or passively, or being part of a conspiracy to promote ragging.

4) I hereby solemnly aver and undertake that

a) My ward will not indulge in any behaviour or act that may be constituted as ragging under clause 3 of the Regulations.

b) My ward will not participate in or abet or propagate through any act of commission or omission that may be constituted as ragging under clause 3 of the Regulations.

5) I hereby affirm that, if found guilty of ragging, my ward is liable for punishment according to clause 9.1 of the Regulations, without prejudice to any other criminal action that may be taken against my ward under any penal law or any law for the time being in force.

6) I hereby declare that my ward has not been expelled or debarred from admission in any institution in the country on account of being found guilty of, abetting or being part of a conspiracy to promote, ragging; and further affirm that, in case the declaration is found to be untrue, the admission of my ward is liable to be cancelled.

Declared this ___ day of _____ month of _____ year

Signature of deponent

Name:

Address:

Tel No.

VERIFICATION

Verified that the contents of this affidavit are true to the best of my knowledge and no part of the affidavit is false and nothing has been concealed or misstated therein.

Verified at (place) on this the _(day)_ of _(month)_ , _(year) _ .

Signature of deponent

Solemnly affirmed and signed in my presence on this the _(day)_ of _(month)_ , _(year)_ after reading the contents of this affidavit.

OATH COMMISSIONER

Gap Year Undertaking

All students who did not pass the qualifying examination for admission to the Ist year in March/April 2010 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.

Deponent.

Notary Public/ First class Magistrate (Stamp)

In the presence of :
(Witness details)

OBC on 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://nbc.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.

2. My family's gross annual income is not Rs 4.5 Lakhs or above for a period of last three consecutive years as per the Ministry of Personnel, Public Grievances & Pensions, Department of Personnel & Training Office Memorandum No. 36033/3/2004-Estt(Res) Dated October 14, 2008.

3. I also understand that, my admission 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 terminated henceforth 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.