



GURU GOBIND SINGH INDRAPRASTHA UNIVERSITY



ADMISSION BROCHURE 2014-2015

GURU GOBIND SINGH INDRAPRASTHA UNIVERSITY
[ESTABLISHED BY GOVT. OF NCT OF DELHI]
['A' GRADE NAAC ACCREDITED UNIVERSITY]
[ISO 9001:2008 CERTIFIED]

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Vice-Chancellor's Message

Guru Gobind Singh Indraprastha University is the first and the largest state university established by the Govt of NCT of Delhi in the year 1998. During the last 15 years, it has carved a niche for itself as a premier institution for professional and technical education, with several achievements to its credit, including ISO 9001-2000. The university was awarded A-grade in 2007 by the UGC's National Academic Accreditation Council (NAAC) for a period of five years, and re-accredited with A-grade in 2013 for the next 5 years.

In a relatively short span of time, Guru Gobind Singh Indraprastha University has launched a number of professional courses at the Diploma, Bachelors, Masters and Doctoral levels in a wide range of disciplines in Engineering, Technology, Medical and Paramedical, Law, Management, Environment, Humanities, Journalism, Architecture, Education etc. The University today caters to about 60,000 students with an annual intake of more than 21,000, which is the highest intake in these courses, compared to any other university in and around Delhi. Approximately 1200 students are admitted annually to the 11 University Schools of Studies in the sprawling Dwarka campus, and the rest in about 110 affiliated colleges spread all over Delhi and NCR. In order to supplement the educational needs and to fulfill the aspirations of the people of Delhi, 85% of the total seats are earmarked for the students of Delhi. With the emergence of Guru Gobind Singh Indraprastha University on the educational landscape of Delhi, both the demand for professional education and qualified human capital are being met.

It is a matter of great satisfaction that we have been able to balance growth and expansion with access, equity and quality, as well as blend modern technologies with conventional approaches to the teaching-learning process. The Dwarka campus combines state-of-the-art, centrally air-conditioned infrastructure with disabled-friendly amenities and an environmentally sustainable approach.

The university is committed to promoting excellence through holistic teaching-learning and research processes aimed at unleashing the creative potential of every student, thus enabling them to become catalysts of social and economic transformation necessary for a just, humane and peaceful world.

It is our belief that these goals can be best achieved through transparency, democratic values, equity, accountability and accessibility in an atmosphere that fosters intellectual freedom. It is our constant endeavour to actively ingrain these values into the day-to-day functioning of the university.

The University would like to be known as a knowledge generating space where the synergy between teachers and students results into teaching and research working towards the welfare of humanity through establishing an interface between Science & Technology and Humanities & Social Sciences. The Universities shall be starting new initiatives for promoting inter-disciplinary research in the University.

As a member of the University family since its inception and its current Vice-Chancellor, it gives me great pride to welcome new students to be a part of this dream.

(Prof. Anup S. Beniwal)
Vice - Chancellor



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1 UNIVERSITY PROFILE

THE UNIVERSITY

Guru Gobind Singh Indraprastha University was established by an Act of Govt. of NCT of Delhi on July 28, 1998. It was conceived as a teaching and affiliating University with explicit objective to facilitate and promote studies, research and extension work in areas of professional and technical education. It is included under Section 2 (f) and 12 (B) of the University Grants Commission and has been awarded 'A' Grade by National Assessment and Accreditation Council (NAAC), Bangalore for the period 2013-2018. It first got certified as ISO 9001 : 2000 and was subsequently upgraded to ISO 9001 : 2008 by the STQC Directorate, Ministry of Communication and Information Technology, Govt. of India. GGSIP University has been conferred with the "Golden Europe Award for Quality and Commercial Prestige" by Otherways Management & Consulting Association, Paris, France on 16.07.2012 giving credence to our commitment to quality management.

In order to serve the broad purpose for which the University is established, it set out its statements of vision, mission and Quality Policy.

VISION

"The University will stimulate both the hearts and minds of scholars, empower them to contribute to the welfare of society at large; train them to adapt themselves to the changing needs of the economy; prepare them for cultural leadership to ensure peace, harmony and prosperity for all."

MISSION

"Guru Gobind Singh Indraprastha University shall strive hard to provide a market oriented professional education to the student community of India in general and of Delhi in particular, with a view to serving the cause of higher education as well as to meet the needs of the Indian industries by promoting establishment of colleges and Schools of Studies as Centres of Excellence in emerging areas of education with focus on professional education in disciplines of engineering, technology, medicine, education, pharmacy, nursing, law, humanities & social sciences etc."

QUALITY POLICY

"Guru Gobind Singh Indraprastha University is committed to providing professional education with thrust on creativity, innovation, continuous change and motivating environment for knowledge creation and dissemination through its effective quality management system."

DISTINGUISHING FEATURES

University has 11 Schools of Studies wherein as many as 42 Undergraduate and Postgraduate academic programmes are being conducted for more than 3000 Students. On the affiliation front, 02 Schools of Studies, namely, School of Engineering and Technology and School of Medicine and Para Medical Health Sciences are being maintained for providing leadership role to the programmes conducted under these Schools at affiliated institutions. In all, the University has 110 affiliated institutes; of these, 84 are self financed and 26 are owned and managed by the Govt. of NCT of Delhi/ Govt. of India, offering education to more than 60,000 students.

Since its inception University has been striving to maintain excellence in teaching, research and extension activities. The University promotes a culture that fosters scientific temper, ethical values and quest for excellence. University contributes to overall socio-economic growth of all the sections of society by providing greater access to professional education in the National Capital Region (NCR). By providing financial aids, scholarships and relaxation in qualifications for differently abled students and socially backward classes, the university has registered significant increase in access during last 15 years.

Regular review of existing courses and introduction of new courses of current national and international relevance have been a major activity of the university to generate human resource which is more skilled and employable. There is a blend of conventional programme as well as inter-disciplinary programmes in emerging areas of technology. To maintain high quality, the teaching and learning processes have been

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made more rigorous and effective. Evaluation process has been made more transparent and credible with high level of automation. ICT enabled working in most of its functional units namely teaching, learning, evaluation, research, administration and governance ensures efficiency and transparency.

Universities have a larger role to play in creation of new knowledge through research. GGSIPU has not only made visible impact on national and international levels through quality research but has also competed well with other Peer Institutions. Recognition of the University School of Biotechnology by UGC for its 'Special Assistance Programme' and support received from DST under FIST programme to University School of Basic and Applied Science is the testimony of research advances made by the faculty members.

The programmes offered by the university in different Schools are relevant and catering to the need of society. All programmes incorporate ICT tools to make them globally competitive. Curriculum development through various Committee such as Board of Studies, Sub Committee of Academic Council and Academic Council that includes external experts from academic institutions and industry ensures it. University has an in-built mechanism to regularly review programmes based on students' feedback, current needs, advances made in different subject areas and industry feedback.

The university has highly qualified teaching faculty, mostly having Ph.D. degree and an excellent track record of professional progression. Keeping in view the global higher education scenario, the curricular design has the contemporary features namely semester system, modularity, choice based credit system, credit transfer, inter university and intra-university migration, interdisciplinary programmes, elective options thereby offering the warranted flexibility to the students. University encourages use of interactive teaching methodology aided by state-of-the-art teaching tools.

Admissions to various programmes in the university are merit based made through Entrance Tests followed by a transparent system of personal counselling. With a view to provide increasing access and equal opportunities to all sections of society, the university provides reservations and relaxation in qualifications for SC/ST/OBC/differently abled candidates as per the policy of the Government.

Since the University has shifted to its new campus efforts are on to make it a world class university with a social outlook and scientific ambience. Reform in management and governance system, innovative ideas in the academic and administrative spheres and the right moral and ethical orientation, the university can be given the status of being a University with difference.

CAMPUSES



The University's state-of-the-art Main Campus, spread over on an area of more than 60 acres, is located at Sector 16-C, Dwarka, New Delhi and 10 University Schools of Studies, namely, (i) University School of Basic and Applied Sciences; (ii) University School of Biotechnology; (iii) University School of Chemical Technology; (iv) University School of Education; (v) University School of Environment Management; (vi) University School of Humanities and Social Sciences; (vii) University School of Information and Communication Technology; (viii) University School of Law & Legal Studies; (ix) University School of Mass Communication; and, (x) University School of Management Studies are functional from here. Certain **distinguishing features of Dwarka Campus** are State of the Art Buildings; Rain Water Harvesting; Sewage Treatment Plant (Recycling for flushing, air-conditioning & horticulture); Usage of solar energy; Disabled friendly-Vehicular free pedestrian walk ways; Adequate Sports facilities; Shopping complex; Innovative landscaping; Attractive exteriors, Murals & Sculptures. **University**



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School of Architecture & Planning is still functioning from the University's Kashmere Gate Campus and it's from here that the Indira Gandhi Delhi Technical University (exclusively for women students) is also operational. In so far as University's School of Architecture & Planning is concerned, its world class infrastructure is being created at University's East Campus located at Surajmal Vihar (spread over the land measuring nearly 19 Acres) wherein an Institute of Design shall further be established.

HOSTEL

University has four well-equipped hostels for girls and boys. Each hostel is provided with television and cable connectivity. It has also a good gymnasium. All hostels have Wi-Fi facilities and thereby the students can access internet in their respective rooms using their device. The hostels are provided with good hygienic cooking facility and spacious dining halls.

INTERNATIONAL COLLABORATIONS AND FOREIGN STUDENTS INTAKE

The University has been able to formalize MoUs in order to facilitate exchange of faculty and students on the one hand, and take up collaborative research, consultancy assignments, organizing of international conferences / seminars with international Universities having good repute, on the other; some of these Universities are : Ostfalia University of Applied Sciences Braunschweig / Wolfenbuettel, Germany, University of Padova, Padova, Italy, Catholic University of Paris (CUP), Institute Superieur d'Electronique de Paris (ISEP), Venice International University, Venice, Italy, Webster University Vienna, Vienna, Austria, HHL-Leipzig Graduate School of Management, Leipzig, Germany, ESSEC Business School, Cedex, France, ESCP, Europe, France, University of Malaya, Kuala Lumpur, Malaysia, Nanyag Technological University, Singapore and Singapore Management University, Singapore. A many as 71 International students took admission during the academic session 2013-14 from different countries of the world. Important among these being: Canada; Nigeria; Germany; Tibet; Thailand; Indonesia; Congo; Afghanistan; Bhutan; Iraq; Magnolia; Nepal; Cambodia; and Malaysia.

DOCTORAL RESEARCH

The University has a well formulated '**Ph.D. Ordinance**' and the '**Regulation in regard to Approved Research Centres and Approved Supervisors**' which is in alignment with **UGC's Regulations (minimum Standards and Procedure for the Award of M.Phil/Ph.D. Degree), 2009. Ph.D students are registered through an entrance test followed by personal interview and completion of compulsory coursework requirement.** The range of research subjects covers theoretical as well as the experimental work in diverse fields such as Polymer Engineering and Technology, Genome Mapping, Theoretical Particle Physics, Renewable Energy, Organizational Behaviour, Financial Modelling, Strategy, Artificial Intelligence, Education Management, Contemporary Indian Literature, Biodiversity Conservation to name a few.

DOCTORAL AND POST DOCTORAL FELLOWSHIP

The University has introduced **Doctoral and Post Doctoral Fellowships**. The amount of Doctoral Fellowship is **Rs.14,000 per month** for the first two years to be increased to **Rs.16,000 in the third year and the fourth year**. The amount for the Post-Doctoral scholarship is **Rs.18,000 per month** and the period is extendable to the third year.

PROVIDING ACCESS TO WEAKER SEGMENTS OF THE POPULACE

The Office of the Director, Student Welfare provides financial support to weaker segments of the society through Student welfare fund to the extent of **waiving of entire fee/partial fee payable by the students**, whose parental income is less than Rs.2 Lakh per annum, on the recommendations of a committee constituted for the purpose. **These students could be either from the University Schools of Studies or from any affiliated institutions.**

UNIVERSITY INFORMATION RESOURCE CENTRE (UIRC)

The University Library, started its services from its inception of the University and moved to its new building at Dwarka Campus in January 2011 with the prime responsibility to supplement the educational and knowledge needs of the students, researchers and its faculty members. UIRC has been consistently building up itself to fulfill its objective by incorporating the latest technology and talent in providing most cost effective and time efficient information services to its member and for this the opening time of the library has been extended from 9.00 am to 9.00

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pm to facilitate students to access the library resources. The total area under the control of UIRC is about 29000 sq.ft, which is spread over to two floors. The services offered by UIRC are fully computerized and the Library is fully air-conditioned. The Resource Centre also has Xerox facilities and document delivery services.

UIRC provide a good ICT infrastructure for accessing its e-resources and have its own computer centre, where 30 systems are installed for accessing the e-resources. Beside this, e-resources can also be accessed through newly installed wi-fi system from student's laptop. The centre at present serves about 5868 members.



UIRC is subscribing to about 340 Print Journals and magazines for its users. A balanced collection of books having more than 50000 volumes of books, covering almost all the major stream of studies with more focus on Science, Technology and Management (STM) are a part of its collection development.

In order to supplement and complement the print resources, UIRC is subscribing to e-resources for almost all the School of Studies, prominent among them are Nature Bundle, ACM Digital Library Collection, IEL Digital Library Collection, EBSCO database, Emerald Management Extra, Hein Online, Lexis-Nexis, Manupatra, Sci-Finder Scholar, Sage Communication and Media Studies Bundle, West Law and many more like this. In addition to this, UIRC is one of



the members of INDEST and UGC-INFONET Consortia and can access all its resources over the internet. Many of the online resources available in public domain can also be accessed through the University Library Webpage available at www.ipu.ac.in/urc/digital.htm. In totality, UIRC provide access to about 14000 + IP authenticated e-resources through its Webpage. Moreover, on the faculty request, access is also provided off campus to these resources.

In addition to this, there are libraries in all the affiliated colleges/institutes of the University depending on the requirement of the courses.

SPORTS AND CO-CURRICULAR ACTIVITIES FOR AN ALL AROUND PERSONALITY DEVELOPMENT

The University accords significance to all around development of the students. Therefore a series of sports and co-curricular activities are planned throughout the year to attain the same.

The University has state of the art playgrounds comprising of Lawn Tennis Court, Badminton Court, Volleyball Court and a large Football ground besides indoor game facilities for Table Tennis, Chess, etc. A Sports Meet is also organized every year by the University where series of sports events covering Volleyball, Basket Ball, Football, Cricket, Table Tennis, Badminton, Chess, Relay Race, Long, High and Triple Jumps, Short Put, Disc Throw, etc. are organized. These apart, students are also encouraged to participate in adventure sports like, Trekking, Rock Climbing, River Crossing, River Rafting, Skewing, Rapping, etc.

Every year in the month of February, a three days cultural festival under the banner "Anugoonj" is organized in the University where students from more than 100 affiliated institutions and the University Schools of Studies participate. In addition each University School of Study through their students bodies organize technical festivals. Last year it has



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seen a substantial range of extracurricular student activities. This can be attributed to creation of Srijan under the supervision of Director Student Welfare with support from enthusiastic faculty members. Srijan, the Indraprastha Society for Creative Expression, is constituted to promote Co-curricular activities among students.

EXAMINATION

The University follows credit based evaluation. The overall weightage of a course in the Syllabi and Scheme of Examination is determined in terms of credits assigned to the course. Obtaining a minimum of 50% marks in aggregate in each course including the semester-end / year-end examination and the teacher's continuous evaluation is essential to earn the assigned credits. A candidate who secures less than 50% of marks in a course is, therefore, deemed to have failed in that course. A student is eligible for the award of the University degree, if he/she has registered himself/herself, undergone the regular course of studies, completed the project report/ dissertation specified in the curriculum of his/her programme within the stipulated time, and has secured the minimum credits prescribed for the award of the concerned degree.



ATTENDANCE AND RE-ADMISSION

A student shall be required to have a minimum of 75% or more in the aggregate of all the courses taken together in a semester provided that the Dean of the School in case of University Schools and Principal/ Director in case of University maintained college / affiliated institutes may condone attendance shortage upto 5% for individual student as per University Examination Ordinances. However, under no condition, a student who has an aggregate attendance of less than 70% in a semester shall be allowed to appear in the semester end examination.

Student who has been detained due to shortage of attendance shall not be allowed to be promoted to the next semester and he/she will be required to take re-admission in accordance with the University Rules.

A Student will be promoted to the next academic year only if such student has obtained at least,

- A. 50% of the total credits of the ensuing academic year from which the promotion to next academic year is being sought, and
- B. 90% of the total credits of previous year excluding the credits of the ensuing academic year from which the promotion to next academic year is being sought.

All such students who fail to get promoted to next academic year for the reason of deficiency in required credits as stated here in above will automatically be declared to have taken academic break to reappear in such examinations of previous semesters in which the student has failed, so as to obtain sufficient credits to be promoted to the next academic year.

Only two academic breaks are permissible for a student for the completion of the academic programme/ course. In no situation a student will be allowed to take more than two academic breaks, for any reason whatsoever, including for the reasons of detention for shortage of attendance or deficiency of credits during the whole term of completion of the course/programme. A student who has exhausted two academic breaks and a further occasion arises for him or her to take academic break because of non promotion or detention, in such cases the admission of such student would automatically stand cancelled right at the time such an occasion of more than two academic breaks arises.

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UNIVERSITY ADMINISTRATION

STATUTORY BODIES & CEO

The President of India is the Visitor of the University and the Lt. Governor of Delhi is its Chancellor. The University in its functioning gets support and guidance from its Statutory Bodies such as the Court, the Board of Management, the Planning Board, the Board of Affiliation, the Academic Council and the Finance Committee. To facilitate the assigned role to these Statutory bodies, the members of these bodies are the persons of eminence from different fields and disciplines. The University functions under Vice-Chancellor, Prof. Anup S Beniwal, on day-to-day basis who is supported by other Officers.

Prof. Anup S. Beniwal, Vice Chancellor

The founder faculty of the University, Professor Anup S. Beniwal has been pursuing teaching and research in the areas of Literature, Culture, Translations and Communication studies for the last 25 years. An alumni of Kurukshetra University, Kurukshetra, he has been a meritorious student throughout his academic career and has won various awards and scholarships, such as National Merit Scholarship, AYOSA Gold Medal, etc. and has been twice adjudged as the Best Researcher (Humanity, Law & Education Group) of the University.

His areas of academic interest include Indian English Fiction, Contemporary Hindi Literature, Cultural Studies and Communication Studies. He has authored four books so far on various subjects such as Partition Literature, Tribal Studies and Narratives of Globalization. He has also published widely in various national/international research journals, reputed magazines and news papers. He is on the editorial and advisory boards of various research journals. He is on the Board of Studies and other academic bodies of various Universities in India

He has served the University in various capacities. He is the Dean of University School of Humanities and Social Sciences since 2008 and has been the Founder Dean of University School of Education and University School of Mass Communication. He has held the office of Director Students' Welfare and has been the Chairmen and Members of various administrative and academic Committees of the University.

OFFICERS OF THE UNIVERSITY & THEIR PROFILE**Sh. S.K. Tanwar, Controller of Finance**

Sh. S.K. Tanwar has more than 27 years of experience in accounting and auditing of various department of Government of India. He is MBA (Finance & Accounts) IGNOU, M.Com (University of Rajasthan) and B.Com (Hons.) from Delhi University. He is presently working as Controller of Finance in GGSIP University, Delhi. Before joining GGSIP University, he was associated in Pay & Accounts Office, Ministry of Home Affairs, Govt. of India and National Institute of Open Schooling (NIOS), an autonomous organization under Ministry of Human Resource Development, Government of India. He has initiated various innovative techniques in finance and accounts system while serving his previous institutions. He was also instrumental in establishing fully computerized Accounting system in National Institute of Open Schooling (NIOS) and helped in developing financial and accounting policies of the

Institution. He was a member of various committees constituted for formulating of institutional planning and policies as a Finance & Accounts expert. He also has experience in organizing national and international conferences/seminar on education.

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Prof. Harish C. Rai, Controller of Examinations (Planning)



Prof. Harish C. Rai is the Controller of Examinations (COE) of Guru Gobind Singh Indraprastha University. Besides being COE, he is holding the additional charge of Director, Academic Affairs and Director, Research & Project Monitoring Cell of the University. While being COE, during 2006-2009, Prof. Rai joined on deputation at All India Council for Technical Education (AICTE), New Delhi as Advisor-I. Prof. Rai received his Undergraduate and Postgraduate Degrees in Engineering from Delhi College of Engineering, Delhi, followed by Ph.D. in Electrical Engineering from IIT, Delhi, in 1991.

Prof. Rai has rich experience of more than 33 years in the field of Technical Education. He held faculty positions in premier institutions such as Faculty of Engineering & Technology, Jamia Millia Islamia (Central University), New Delhi and Professor in the Department of Electrical & Electronics Engineering, C.R. State College of Engineering, Murthal, Sonapat, Haryana and Director, AICTE, New Delhi. His subject areas of interest include Electrical Machines, Control Engineering, Power Electronics and Power Systems etc.

Prof. Rai has contributed a number of papers in National and International Journals of repute and also authored 14 books meant for degree in Engineering or equivalent.

Prof. Rai is a fellow member of Institution of Electronics and Telecommunication Engineers (IETE), Institution of Engineers, Aeronautical Society of India, ICTP, Life member of ISTE. Member of Governing Bodies of NIT (Srinagar, Agartala, Duargapur) and CBSE. He is a recipient of "Spardha Shree Award 1999" for his Meritorious Services in Education. He was awarded "Dr. S. Radha Krishnan National Teacher's Memorial Award 1997". He was a recipient of first prize from MHRD-AICTE for writing a Technical Book in Hindi on Industrial and Power Electronics. He was awarded Teacher's Excellence Award – 2000 for valuable services rendered to the cause of Education in the Country.

Prof. Pravin Chandra, Controller of Examinations (Operations)



Prof. Pravin Chandra is working as Professor in the University School of Information & Communication Technology and Controller of Examinations of Guru Gobind Singh Indraprastha University, Delhi. Previously he was working as Assistant Professor (IT & Production & Operations Management) at Lal Bahadur Shastri Institute of Management, New Delhi. He has also worked in University of Delhi as Associate Professor during 2010-2011, He did his M.Sc in Physics from University of Delhi and M.Tech. (Computer Applications) from the Indian School of Mines, Dhanbad. His teaching and research interests are in the areas of Artificial Neural Network, Theoretical Computer Science. His doctoral research work is in the area of artificial neural networks.

Brig. Pradeep Kumar Upmanyu, Joint Registrar (Admissions)



Brig. Pradeep K. Upmanyu is presently working as Joint Registrar(Admissions) in the University. He had joined this University as Deputy Registrar in 01st October, 1999. Since then, he has worked in various capacities as Deputy Registrar and held various departments like General Administration, Store & Purchase, Student Welfare, Planning, Examination. Prior to joining this University, he was serving as Regular Commission Officer in Indian Army in the Corps of EME. He has also served as HOD of Transport & Security and Fire Department in New Delhi Municipal Council, New Delhi on deputation from Indian Army for a period of four years from November 1994 to November, 1998. He has done his Graduation in Engineering from

REC, Kurukshetra in first division and after that he has done several technical and management courses in the army being conducted at EME School at Baroda and MCEME at Secundrabad. After taking premature retirement from Regular Army, he has taken commission into the Territorial Army and at present posted as Deputy Commander TA Gp Western Command (presently on SUL).



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Other Officers of the University

I Directors

1. Prof. A. K. Narula	Centre for Pharmaceutical Technology
2. Prof. C. S. Rai	Director (Students' Welfare) & Director (Research & Consultancy)
3. Prof. Anu Singh Lather	Director (International Affairs)
4. Prof. H. C. Rai	Director (Academic Affairs) & COE (Planning)
5. Prof. M. Afzal Wani	Director (Legal Aid Cell)
6. Prof. Neena Sinha	Director (Development)
7. Prof. J. K. Garg	Director (CDMS)
8. Prof. Suman Gupta	Director (Centre for Governance)
9. Prof. A. K. Saini	Director (IP University Interaction Cell)

II Proctor

Prof. U. K. Mandal	Proctor
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III Chief Warden

Prof. P. Bhattacharya	Chief Warden
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IV Examination Divison

Prof. Harish C. Rai	Controller of Examinations (Planning)
Prof. Pravin Chandra	Controller of Examinations (Operations)
Sh. A. D. Lamba	Dy. Registrar

V Accounts Branch

Sh. Sushil Kr. Tanwar	Controller of Finance
Sh. Partha Mukherjee	Dy. Finance Officer

VI Admission Branch

Brig. P. K. Upmanyu	Jt. Registrar
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VII Academic - Coordination & Students Support Branch / Legal Branch

Dr. Nitin Malik	Jt. Registrar
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VIII Personnel Branch

Sh. A. K. Verma	Jt. Registrar
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IX Policy, Planning & RTI Branch

Mr Ajay Kapoor	Asstt. Registrar
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X Coordination Branch

Dr. (Mrs.) Suchitra Kumar	Jt. Registrar
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XI General Administration Branch

Sh. Pankaj Agarwal	Dy. Registrar
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XII Purchase Branch

Dr. Abha Vermani	Dy. Registrar
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XIII Affiliation Branch

Ms. Sunita Shiva	Dy. Registrar
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XIV University Information Resources Centre(UIRC)

Mr. Subhash Deshmukh	Librarian
Dr. Anand P Singh	Dy. Librarian
Dr. Kanta Kapoor	Dy. Librarian (on leave)
Dr. Savita Mittal	Dy. Librarian

XV Estate

Md. Ahtesham Ullah	Dy. Registrar
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XVI Central Store

Sh. R. P. Kansal	Incharge (Store)
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XVII	Public Relations Section	
	Sh. Nalini Ranjan	Public Relation Officer
XVIII	Staff Development Cell	
	Prof. Arvinder Kaur	Chairperson
XIX	Centralized Career Guidance and Placement Cell	
	Prof. B. V. R. Reddy	Chairman
XX	Univercity Legal Cell	
	Prof. Afzal Wani	Director
XXI	Academic Grievance Committee	
	Prof. P. C. Sharma	Chairman
XXII	University Works Division	
	Sh. V. P. Srivastava	Superintending Engineer
XXIII	University Dispensary	
	Dr. Ravi Gupta	Medical Officer
XXIV	Officers on Deputation	
	Sh. Sushil Kumar	Jt. Registrar - On deputation as Registrar NIFTEM
	Sh. Umakant Agarwal	Dy. Registrar in Lien JNU
	FI Lt Mamta Rani Aggarwal	Dy Registrar (On Lien)

University Website and Intranet

University Centre for IT Infrastructure & Management (UCITIM)

A Committee comprising of three faculty members, namely Dr. Amit Prakash Singh, Sh. Ashish Payal and Sh. R.L. Ujjwal, under UCITIM maintains the website (www.ipu.ac.in) giving information on various aspects and facets of the University. The website of the University also acts as a communication channel to the public at large and various institutions, parents, students etc. who wish to have any latest information about the University. The results of various programmes and all information relating to admissions are also given on this website.

The entire University is connected through 10 Gbps OFC LAN having Intranet facility available in each classrooms, Laboratories, seminar hall and offices of the University. The internet facility has also been provided in each room of the boys and girls hostel of the University. Wi-fi facility has been provided in and around university library. University has 1 Gbps NKN link for internet. UCITIM also provide repository services of library through its server. UCITIM has dedicated mail server for faculty, staff and students.

Rules & Regulations

University administration functions while dealing with various issues of administrative and academic significance, within the provisions of the University Act, rules and regulations (Statutes & Ordinances) framed thereunder. The University has notified 33 Statutes and 36 Ordinances which have not only been published in the Gazette of Delhi but have also been laid on the floor of the Legislative Assembly of Delhi. The University Act and all its Statutes as well as Ordinances have been placed on the University Website. This clearly speaks of the nature of transparency maintained by the University Administration in its functioning keeping the society at large informed not only about the academic programmes but also about all its latest rules, regulations etc.



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UNIVERSITY SCHOOLS OF STUDY

1. UNIVERSITY SCHOOL OF BASIC & APPLIED SCIENCES (USBAS)

The basic science is the mother of Technology, Applied Sciences & Engineering. The University School of Basic & Applied Sciences (USBAS) has a unique place in the academic landscape of the University. It has been at the forefront of providing required courses in Physics, Chemistry & Mathematics for B.Tech/M.Tech, MCA, M.Sc. teaching programmes of all University School of Studies. Along with active teaching at the undergraduate and the postgraduate levels, USBAS has a very vibrant research culture. The experience and expertise of our faculty has played an important role in training students and preparing them for both the professional job market and for basic & interdisciplinary research careers in Science & Technology. USBAS remains committed to this mission for all its present and future programmes.

PROGRAMMES OFFERED

The faculty of USBAS is actively involved in teaching of above said foundation courses for B.Tech/M.Tech (Dual Degree) programmes of the University in the fields of Chemical Engineering, Information Technology, Biochemical Engineering, Electronics & Communication Engineering, Biotechnology and Computer Science & Engineering both at the undergraduate and postgraduate levels. In addition, USBAS also runs three specialized post graduate programmes of its own: M.Tech (Engineering Physics), M.Tech (Nanoscience and Technology) and Post Graduate Diploma in Radiological Physics (PG-DRP). M.Tech (Nanoscience and Technology) is started with the requisite funding provided by the Department of Sciences and Technology.

PROGRAMMES OFFERED

Programme	Duration (Years)	Intake
M.Tech (Engineering Physics)	2 Yrs	18
M.Tech (Nano Science & Technology)	2 Yrs	15
*PG Diploma in Radiological Physics	1+1	20

**One year course work under UGC innovative programme+one year internship (from 2013 as per AERB guidelines)*

RESEARCH ACTIVITIES

The University School of Basic and Applied Sciences is one of the most active research promoters in the University. Many of our faculty members are the acknowledged researchers in their areas of expertise and undertake research projects in several frontline areas of Science. In the past decade, boundaries between the sciences have blurred like never before and many of the frontline areas of research are truly interdisciplinary in nature. Our excellent faculty and their team of research scholars actively pursue work in diverse areas both in fundamental sciences and interdisciplinary topics. Some of our research areas are in high energy physics, accelerator driven sub critical system, neutron scattering, Radiation Physics, Material Science, Ion Beam modifications of materials, foundations of quantum mechanics, quantum computing, medicinal chemistry, organometallic chemistry, polymer sciences, activated Carbon, Carbon & ceramic based foam and inorganic nanostructured materials & their nanocomposites, Numerical analysis, Non-linear Dynamics, Weather Forecasting, renewable energy, Nano Science, space dynamics, applied mathematics, fluid dynamics and topology etc. The School also has many research projects funded by national funding agencies like the DST, AICTE, CSIR, IUAC, BRNS UGC etc. Among our many research collaborators are the University of Delhi, IIT Delhi, Sri Ram Institute for Industrial Research, Delhi, IUAC, New Delhi, Saha Institute of Nuclear Physics, Kolkata, Punjab University, Patiala, Academia Sinica, Taiwan, Torino Polytechnic, USA, INPE Obnisk & JINR Dubna, Russia and University of Bonn (Germany). A Large number of our publications are in leading national and international referred journals of repute.

LABORATORIES

Over the preceding fourteen years, the University School of Basic & Applied Sciences has developed several equipped laboratories with state-of-the-art instruments to cater need of its teaching courses as well as research activities:

- UG Chemistry Laboratories



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- UG Physics Laboratory
- Chemistry Research Laboratories (Organometallic Chemistry, Photochemistry, Medicinal Chemistry, nanomaterial Synthesis)
- Physics Research Laboratories (Solar Energy, Thermoelectric, Material Science and Radiation Physics, Functional Nanomaterials)
- Computational Physics Laboratory
- Advanced Physics PG Laboratory
- PGDRP Laboratory
- Nano Science & Technology PG Laboratory
- Non-Linear Dynamics Laboratory (Applied Mathematics, Weather forecasting)

USBAS also supervises the functioning of the Technology Resource Centre (TRC) and Nano Science & Technology programme (NST) as a higher-end research facility, which provides industrial consultancy services to industrial houses and to institutions and individual researchers. The TRC has many advance instruments like:

- Differential Scanning Calorimeter
- Fourier Transform Infra Red Spectroscopy
- High Performance Liquid Chromatography
- Gas Chromatography
- UV- Visible Spectrophotometer
- Viscometer
- Dynamic Mechanical Thermal Analyzer

The NST has the following major facilities:

- XRD
- Atomic Force Microscopy (AFM)
- Source Meter
- Nanovolmeter

The School is in the process of acquiring equipments like Micro Raman, UV-Vis-NIR Spectrophotometer, B-class Sun Simulator and High performance Computing Facility under the FIST(DST) grant and is committed to develop a closer association with industry through collaborations & consultancy.

FACULTY

USBAS has a team of qualified and highly accomplished faculty members. In total, we have 24 faculty members.

Prof. A.K. Narula, Dean, USBAS, Ph.D



Dr A.K. Narula is a Professor of Chemistry. Prior to joining this university in 1998, he was Professor of Industrial Chemistry at Guru Jambheshwar University, Hisar and was Dean of Faculty of Science and Technology at Guru Jambheshwar University, Hisar. He is also a Director, Centre for Pharmaceutical Science and Technology. He has done his Ph.D. from University of Delhi, Delhi. He has been a Post Doctoral Fellow at the Laboratory de Chimie Minerale'et Moleculaire, Parc Valrose, Nice Cedex, France. He has more than 30 years of Teaching and Research experience. He has Supervised about 16 Ph.D. At present 6 Research scholars are working under his supervision. He has more than 80 research paper in journals of National and international repute. He is an author of two books. His area of research is Alkoxide Chemistry, Organometallic Chemistry, Coordination Chemistry and Polymer Chemistry. He is a resource person and subject expert in the field of Chemistry in many Universities and subject Reviewer for many National and International Journals and also chaired the technical sessions in National as well as International conferences. He has about 20 years Administrative experience as Director & Chairman Board of Studies, School Research Committee, Examination Committee, Curriculum Development Committee, Library Committee, University News Letter etc., Life member of several International/National recognized Organizations in the sphere of Chemical Sciences and was Appointed as Consultant, Subject Expert, Examiner-Head examiner for various examinations in various selection committees of States, Universities and Organizations.

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DEPARTMENT OF CHEMISTRY

Prof.(Mrs.) S. Manocha, FGSA

Dr. (Mrs.) Satish Manocha is a Professor of Chemistry at University School of Basic and Applied Science. Prior to joining this University, she has served at senior positions at various organizations like as Senior Scientist at DST, CSIR & DSIR and Professor at Sardar Patel University. She was a Professor and Head, Department of Materials Science at Sardar Patel University. She obtained her Ph.D. Degree from I.I.T. Delhi and Master degree from Delhi University. Her 32 years experience includes teaching, research and science management at Institutions like Sardar Patel University, I.I.T. Delhi; N.P.L. Delhi; C.S.I.R. Delhi; D.S.I.R. and D.S.T, Delhi. On joining Sardar Patel University in 1992, she made significant contributions in establishing the Department of Materials Science both in Higher Education & Advanced Research programs of the Department. Currently, it is Centre for Advanced Studies, the only CAS Department in Materials Science and particularly in Gujarat. She has done significant research work pertaining to activated carbon, carbon and ceramics based foams and inorganic nanostructured materials and their nanocomposites, nanoclays and their nanocomposites, nanosilver reinforced HA composite for medical application, carbon and ceramic based materials from waste materials under sponsored research projects from DAE, DRDO, DST, CSIR, AICTE and UGC. Her work has been recognised by awards and honours such as Academician-2013, Asian Pacific Academy of Materials (APAM); International Sardar Patel Award for Excellence in Technology Development-2012; MRSI-Medal, 2012 ; Elected Fellow of Gujarat Science Academy -2003; Visiting Researcher, Tokyo Institute of Technology 1998-2003: Best poster presentation MRSI 2000 ; HariOm Ashram Prarit Inter University Best Paper Award in Materials Science -1992. She has published more than 80 papers in peer reviewed Journals and chapter in Sadhna-INSA, Delhi. To her credit is one patent on Smectite Nanoclays from Indian Clays. She has developed several processes which have been transferred to Industries, e.g. nanoclays, carbon and ceramic from Banana stem, porous carbon and carbon Foams for high end application and inorganic-carbon hybrid nanomaterials. Consultancies have been given to companies in USA, Japan and India. She has completed 15 national Projects from various funding agencies, e.g. DST, AICTE, UGC, CSIR, DAE, GUJCOST, DMSRDE, DRDO and 8 International projects sponsored by NSF, USA; IFCPAR, France; BMBF-Germany and TIT, Japan. 13 students have been awarded Ph.D. Degree under her guidance and currently 6 more are working. 197 M.Sc students have carried out M.Sc. projects under her supervision. She has given more than 25 Invited talks and key note addresses in International and national Conferences. She has been expert member on various DST, UGC, IBS and CSIR committees. She had organized six Refresher courses in Materials Science sponsored by UGC for University and college teachers in western region of India and participants in turn promoted Materials Science In their Institutions. In addition she has organised more than 20 National & International conferences and workshops on Industrial Carbon and nanostructured carbon & ceramic materials.

Prof. Avinash C. Sharma, Ph.D., M.Sc.

Dr Avinash Sharma is a Professor of Physics. He obtained his PhD from Punjab University, Chandigarh in 1983. Prior to joining GGSIPU in 1999, he was at the Department of Physics, Kurukshetra University, Kurukshetra. He has more than 30 years of teaching & research experience. During his tenure as Dean USBAS (2005-2008), three PG level innovative programmes were conceived and launched; and the School grew three folds in terms of faculty strength with extramural funding of several crores from various funding agencies, including the prestigious Nano Technology project from DST. Several international collaborative programmes were also initiated. He has worked at CERN (Switzerland) and LNF, Frascati (Italy), and Nihon University (Japan) apart from short visits to a large number of International centers and universities world over, including in USA, Russia, Taiwan, China, Japan, Netherland etc. He is also a recipient of Hari Om Ashram Research Endowment Award. He has successfully completed various research projects funded by different organizations of repute such as UGC, DST, and CSIR. Recently he has also filed international patents. His area of Interest: Theoretical Particle Physics; QCD Phenomenology; B-Physics; Relic Neutrinos. He has also been Director of (Academic Affairs) from 2009-2011.

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Prof. Vinod Kumar, M.Sc. , Ph.D



Dr. Vinod Kumar joined as Professor of Engg. Physics / Nano Science in the School of Basic and Applied Sciences on April, 30, 2010. Earlier, he was Professor of Physics and Director of Centre for Development of Physics Education at University of Rajasthan, Jaipur. In his career as High Energy Nuclear Physicist from the year 1974 to 2001 he has published about 144 research papers working in EMU01, L3, WA93, WA98 international collaborations. On Relativistic Heavy Ion Collisions and Quark Gluon Plasma he has guided 3 students leading to Ph.D degree during the period 1986 to 1994.

During the last 13 years he has pioneered research and developmental work related to Accelerator Driven Sub critical Systems (ADS) in the country for the development of nuclear energy systems for i) utilization of Thorium as a fuel and ii) Transmutation and /or incineration of long lived nuclear waste. For the said technology he has developed a Monte Carlo code in collaboration with JINR (Russia) and measured cross sections of very high energy spallation neutrons. Both the activities are useful in design and modelling of ADS. Recently, he is developing a Monte Carlo code for the Radiation Damage (named "JA-IPU") by neutrons and other charged radiation and conducting pioneering experiments of (n,xn) reactions using the high energy accelerators for validation of the two codes in an international collaboration. In this new area of R&D he has successfully guided 3 more research students. On the subject a book entitled "Role of (n,xn) reactions in ADS" has been published by Lambert publications (Germany).

He has been a member of Board of Studies of Physics in Kota, Ajmer and Rajasthan Universities and member of a committee on Physics studies of ADS of BARC, Mumbai. He is member of the Advisory Committee and COC of Centre for Development of Physics Education, University of Rajasthan, Jaipur. He is a member of a DST committee for SERC School on Experimental High Energy Physics. He is a nominated member of Scientific Advisory Committee (SAC) of IUAC, New Delhi and Departmental Research Committee of Applied Physics of BSBRA Central University, Lucknow. Also he has been nominated member of Programme Advisory Committee (PAC) of DST, New Delhi. He has been recognized by various academic and social organizations for his academic achievements.

Faculty of USBAS

1. Dr. Rashmi Bhardwaj, Associate Professor M.Sc., Ph.D
2. Dr. Shruti Aggarwal, Associate Professor M.Sc., Ph.D
3. Dr. Anu Venugopalan, Associate Professor M.Sc., Ph.D
4. Dr. Anjana Bagga, Associate Professor M.Sc., Ph.D
5. Dr. Vaishali Singh, Associate Professor M.Sc., Ph.D
6. Dr. Tapan K. Jain, Associate Professor M.Sc., Ph.D
7. Dr. Abha Aggarwal, Assistant Professor M.Sc., Ph.D
8. Dr. Gulshan Dhamija, Assistant Professor M.Sc., Ph.D
9. Dr. Arif Ali Khan, Assistant Professor M.Sc., Ph.D
10. Dr. Anjana Bagga Assistant Professor M.Sc., Ph.D
11. Dr. Kriti Batra, Assistant Professor M.Sc., Ph.D
12. Dr. Archana Khurana, Assistant Professor M.Sc., Ph.D
13. Dr. S. Neeleshwar, Assistant Professor M.Sc., Ph.D
14. Dr. Yogesh Kumar Tyagi, Assistant Professor M.Sc., Ph.D
15. Dr. Ram Shankar Gupta, Assistant Professor M.Sc., Ph.D
16. Dr. Leena Khanna, Assistant Professor M.Sc., Ph.D
17. Dr. Shipra Mittal Gupta, Assistant Professor M.Sc., Ph.D
18. Dr. Rajesh Kumar, Assistant Professor M.Sc., Ph.D
19. Dr. Satyabrata Mohapatra, Assistant Professor M.Sc., Ph.D
20. Mr. Mukesh Kumar, Assistant Professor M.Tech

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2. UNIVERSITY SCHOOL OF BIOTECHNOLOGY (USBT)

USBT was established in 1999 with ultra-modern facilities. It started with the mission of generating world-class manpower and knowledge-base for biotechnology education, research and development based on national values, social awareness and conscience. The vision of USBT has been to impart learner-oriented education, research, demonstration and dissemination of knowledge to the needs of a sustainable society.



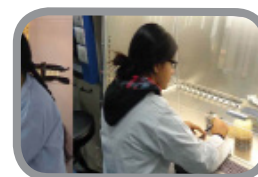
PROGRAMMES OFFERED

USBT offers B. Tech/M. Tech dual degree course in Biotechnology, M.Tech course in Food Processing Technology and Ph.D programme. Admission is strictly through an All India Common Entrance Test. Students with 10+2 in physics, chemistry, biology or biotechnology are eligible for the B.Tech course. Engineering graduates or M.Sc. students of Biotechnology and Food Technology are eligible for M.Tech. Food Processing Technology course.

Programme	CET code	Duration (Years)	Intake
B.Tech./M.Tech. (Dual Degree)	130	4+2	45
M.Tech. (Food Processing Technology)	152	2	20

INFRASTRUCTURE

USBT is equipped with advanced equipments and infrastructure commensurate to undergraduate, post graduate and doctoral research. It has been ranked sixth in India by Cyber Media Research (publishers of Biotech magazine Biospectrum, September 2012). USBT is the youngest among all Top Ten Biotech Schools. The USBT has established state of the art laboratories for teaching and research in different areas of biotechnology viz. plant tissue culture, animal tissue culture, genomics, proteomics, microbial technology, food biotechnology and bioinformatics.



RESEARCH PROGRAMME

Advanced contemporary research is an important activity of the USBT that has led to more than 200 research publications in last five years - of which over 100 are in international journals. Presently, there are 24 students pursuing Ph. D under the guidance of faculty members. The research areas span various disciplines of biotechnology like plant biotechnology, structural and functional genomics and proteomics, plant based bioactives, biotic and abiotic stress signaling, development and metabolic regulation, animal biotechnology, immunology and molecular biology of human pathogens and disease, microbial biotechnology, food biotechnology, biosensors, bioinformatics, etc.



CONFERENCES

USBT has successfully conducted Indraprastha International conference of Biotechnology in Oct 2013. Various renowned speakers from India and abroad had participated delivered their talk on various topics related to Biotechnology. USBT had also conducted Indo-UK joint seminar on the topic related to 'Stem Cell Technology in Drug Discovery' in Jan 2013 jointly sponsored by DST, India & Royal Society, United Kingdom.

STUDENTS' PROFILE

Our students' profile reflects its national character in terms of various regions, communities and gender. After completing B.Tech/M.Tech course a majority of students opt for PhD in India (IISc, NCBS, CCMB, JNCASR, NCCS, ICGB, IGIB, NII, IITD, IITM, IITK, IITB) or abroad in Universities like Cambridge, Göttingen, Tufts, Penn State, Ohio State, Utah, Iowa State, Chicago, Massachusetts, Texas A & M, Cincinnati, Nebraska, and Max-Planck Institute, Frankfurt. Some successfully combine this course with MBA programme. Students have also been regularly offered jobs by industrial organizations such as Reliance, Panacea Biotech, TCGA, BCIL, Jubilant Organosys, and E-valueserve. Students of the USBT have proven their academic acumen by successfully qualifying in many national (UGC/CSIR/- NET, ICMR, GATE, CAT, IIFT, IMI, ICFAI, XIMB) and international (GRE, TOEFL, IELTS, GMAT) competitive examinations, often with top scores and ranks.

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FACULTY

USBT has an excellent faculty profile. Most of the faculty members of the USBT are Ph. D. holders from reputed institutions in India and abroad and represent diverse areas such as Genomics, Bioinformatics, Agricultural Biotechnology, Biomedical Research, Pharmaceutical Biotechnology, Environmental Biotechnology and Industrial Biotechnology, as well as IPR, Biosafety, Bioethics and Management issues, as evidenced by their publications, conference presentations, awards, and extramural research grants. Some of them are Fellows of National Academies/Societies/Professional bodies. Faculty members have availed top research Fellowships like Alexander von Humboldt, JSPS, INSA-DFG, INSA-Royal Society, BOYSCAST, UNESCO Biotechnology Award, etc. to work in world-renowned institutes in Germany, Japan, UK and USA. The faculty consciously orients and updates themselves by attending refresher/orientation courses and participating in national/international conferences/symposia/workshops. Two faculty members have been conferred with the Best Teacher Award, and one faculty the Best Researcher Award of the University. So far the faculty has attracted extramural funding of Rs. 7.0 crores in the form of sponsored research projects from various granting agencies like DRDO, CSIR, DST, DBT, AICTE, UGC, MoEF & ICAR. USBT has received 5 year (2011-2016) grant from UGC, under Special Assistance programme (SAP) to carry out research on "Phytomedicines". The USBT organized an International Conference on Biotechnology (ICB – 2013) during Oct 22-25, 2013. Over 250 national and international scientists participated in this important scientific event.

PROFESSORS

Prof. P.C. Sharma, Dean



Prof. P.C. Sharma did his M.Phil. & Ph. D in Ag. Botany (Genetics & Plant Breeding) from Meerut University. He has 30 years of teaching and research experience. Prior to joining this University in Nov. 2002, he served in Ch. Charan Singh University, Meerut as Lecturer and subsequently as Reader in the Department of Agricultural Botany, and as Coordinator, Department of Biotechnology. His main teaching and research areas cover genetics, plant molecular biology, agricultural biotechnology and bioinformatics. He has over 100 research publications to his credit. He has availed INSA-DFG International Exchange Fellowship in 1993, 1998 and 2009, UNESCO Biotechnology Fellowship in 2000 at Plant Molecular Biology unit of Department of Biology, Frankfurt University, Frankfurt, Germany. During these visits, he worked on development of

molecular markers for DNA fingerprinting, genome mapping and transcriptome analysis in chickpea. In 2002, he was awarded long term JSPS Invitation Fellowship for Research in Japan, which he availed at Iwate Biotechnology Research Centre, Kitakami, Japan to work in front line areas like Virus Induced Gene Silencing and Serial Analysis of Gene Expression. His group's most recent research on in silico mining of microsatellites has been published in high ranking international journals and led to the development of two highly accessed microsatellite databases. A large number of EST and short sequences have been submitted to NCBI database. He has been PI/Co-PI in different research projects sanctioned by DBT, DRDO, ICAR, etc. He has supervised 14 Ph.D. and a large number of M.Phil., M.Sc. and M.Tech. students. He is a Fellow of the National Academy of Sciences (FNASc.), and Fellow of the National Academy of Agricultural Sciences (FNAAS).

Prof. K. Kannan



Prof K. Kannan former Vice Chancellor of Nagaland University (Central University) and founder Dean of USBT, did M.Sc. Chemistry from IIT(Bombay) and Ph.D. (Biochemistry) from Mysore University, a fellow of Imperial College of Science and Technology, London. He has worked at CCMB, Hyderabad, established the first biotechnology programme in Pune University and industry. He has held senior positions (Director, GM & Associate Director) in the diagnostic industry (Span Diagnostics) and pharmaceutical industry (Ranbaxy Research Lab). He is very well known for initiating stem cell research in India nearly three decades ago. He established the first extracellular role for ubiquitin in the world and its role in hematopoietic stem cell in homing and adhesion in mouse bone marrow in 1993. Areas of research interest are Protein Chemistry, Enzymology,

Natural Products, Stem cell Biology, Diagnostics, Molecular Medicine, Hematology, DNA Probes, FISH, Dairy Science and Technology. He was the national convener for biotechnology for CBSE (2002-2009) who introduced Biotechnology for XI and XII as an optional subject and the state of Jammu & Kashmir. In the year 1970 he was recipient of the National Science Talent Scholarship from Government of India. He was member of the National committee on Higher Education drafting the 12th Plan. In the year 2000, the now well known cultural festival Anugoonj was initiated by Prof. K. Kannan.

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Prof. Rajinder K. Gupta



Prof. Rajinder K. Gupta, Ex-Dean (2009-12) completed his higher education including first PhD degree from Delhi University in Organic Chemistry of Natural Products. He earned his second PhD in Microbiology /Biotechnology from University of Idaho, USA. He was awarded Alexander von Humboldt Fellowship to work at the Technical University, Berlin, Germany, where he worked on Phytochemicals and Natural Products. He worked on bioactive agents from marine organisms at the University of Oklahoma, USA, and on actinomycetes physiology and on their biocatalytic /biotransformation ability of various substrates of natural origin at University of Idaho, USA. He has over 125 research publications to his credit and has more than three decades of experience in academia, and industry (pharmaceutical, agrochemical, polymer and commercial test house). He is a member of several national & international professional /academic bodies. He has provided consultancy to Delhi Government to set up an ultramodern food quality testing facility in Delhi. His current areas of research include Phtomedicine, nutraceuticals and functional foods, antibiotics from actinomycetes, biotransformations, and nanobiotechnology.

ASSOCIATE PROFESSORS

Dr. N. Raghuram

N. Raghuram (Ph.D. from Jawaharlal Nehru University, 1994) specializes in the functional genomics of plant signaling and metabolic regulation by light and nitrate through G-protein pathways, with special reference to plant nitrate assimilation and N use efficiency, in rice, Arabidopsis and Spirulina (Arthrospira).

Dr. K.K. Aggarwal

K.K. Aggarwal (Ph. D from University of Delhi, 1994) specializes in enzyme purification and characterization, protein-protein interactions, bioremediation, plant insect interaction.

Dr. Meenu Kapoor

Meenu Kapoor (Ph.D., 1997 from Center for Gene Research, Nagoya University, Japan) specializes in plant molecular biology with emphasis on gene silencing using developmental mutants and epigenetics.

Dr. Promila Gupta

Promila Gupta (Ph.D. from University of Delhi, 1997) specializes in economic botany, plant developmental biology with emphasis on exploring phytochemicals and their roles in alleviating various types of biotic and abiotic stresses ensuring better plant survival and possible medicinal implications for human welfare.

Dr. Suresh Kumar

Suresh Kumar (Ph.D. from Newcastle University, UK) holds a B. Pharma and M. Tech in Biotechnology. He specializes in role of Phyto-medicine in neurodegenerative disorders specifically Alzheimer diseases. His area of interest includes receptor defects in breast cancer patient and immunopharmacological study of herbal compounds.

Dr. Nimisha Sharma

Nimisha Sharma (Ph.D. from Indian Institute of Science, 2000) specializes in the area of regulation of gene expression in eukaryotic cells and functional genomics, with a focus on RNA Polymerase II transcriptional machinery.

ASSISTANT PROFESSORS

Dr. Monika Gandhi, (Ph.D. from All India Institute of Medical Sciences, 2004) specializes in the role of complement receptor 1 in the pathophysiology of falciparum malaria, and the molecular etiology of recurrent spontaneous abortions and plant based therapeutics for recurrent spontaneous abortions.

Dr. Ram Singh Purty, (Ph.D. from University of Delhi, 2005) specializes in plant signal transduction and abiotic stress tolerance mechanisms in plants.

Dr. Rinu Sharma, (Ph.D. from All India Institute of Medical Sciences, 2004) specializes in differential gene expression in cancer, development of biomarker targeted early diagnosis of cancer.

Mr. Sayan Chatterjee, B.Tech in Biotechnology from West Bengal University of Technology, Kolkata. M.E. in Biotechnology from Birla Institute of Technology & Science, Pilani, Rajasthan, specializes in Bio-informatics, Food Biotechnology and Biochemical Engineering.



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3. UNIVERSITY SCHOOL OF CHEMICAL TECHNOLOGY (USCT)

Vision

To be among the top ten schools in the country imparting innovative and practical knowledge in the Chemical Engineering and allied fields to help people and society in terms of services by the students.

Mission

To generate new knowledge by offering graduate and post graduate programme and provide quality manpower with high employment potential in the present liberalized economic climate in the era of globalization.

Concept of The School

University School of Chemical Technology (USCT) is a place for fertile young minds who will be future thinkers, developers and creators with special focus on Chemical Engineering and its allied fields. The USCT offers to the students a high quality learning experience, appropriate blend of theory, basic principles and engineering practice which is boosted by cutting edge research and innovation – at the heart of one of the nation's most vibrant cities.

QUALITY POLICY

Guru Gobind Singh Indraprastha University is committed to providing professional education with thrust on creativity, innovation, continuous change and motivating environment for knowledge creation and dissemination through its Quality Management System.

Programmes offered

- B. Tech/M. Tech (dual degree) in Chemical Engineering - (4+2) years
- B. Tech/M. Tech (dual degree) in Bio-Chemical Engineering - (4+2) years
- M. Tech in Chemical Engineering – 2 years.
- Ph.D Programme.

The curriculum is structured to provide knowledge in a variety of areas to the students. The system is flexible so that a student has adequate opportunity to learn about other fields such as Biotechnology, Information Technology and Environment Management, Business Management and be equipped to serve emerging interdisciplinary fields in future.

WHAT IS CHEMICAL ENGINEERING?

Chemical Engineering is sometimes called 'Process' or 'Manufacturing' engineering. It concerns the Science, Technology and Management involved in making the materials and products the society needs. Chemists design chemical reaction routes to produce desirable products, working on a molecular level. Chemical Engineers then find ways to put these into practice in a cost-effective and safe way on an industrial scale, using real equipment to move, mix, react, heat up, cool down, and separate materials. Over the last 25 years, Chemical Engineering has evolved developing interfaces with newer areas, including Biochemical Engineering, Nano Technology, and Energy Engineering taking advantage of developments in high performance computations, electronics and instrumentations and information processing. Chemical Engineers can work in areas from chemo-informatics to bioinformatics, drug delivery systems, molecular modelling, to handling systems from nanoscales to global scales for environmental impact and climate change. There is a huge scope for higher studies in Chemical Engineering because of highly science based discipline and requirement of R&D in the country.

CAREER PROSPECTS

- Our graduate/post graduate students are accepted and recognized throughout the world. A prestigious qualification from our University is a passport to a great future.
- Courses have a practical focus and use design projects, laboratory experiments and problem based learning to enhance theoretical work. You gain the analytical and problem-solving skills that are sought by the employers.
- Chemical Engineers work in a wide range of employe





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- Close links with industry ensure your degree will be well known and highly acclaimed.
- A Chemical Engineering degree is widely applicable to industrial and business sectors, giving you choice and flexibility.
- Our graduates also forge excellent careers in non-Chemical Engineering jobs, such as finance, marketing and management.

USCT has launched a new B.Tech/M.Tech dual degree programme in Biochemical Engineering from the academic session 2013-2014. A wide range of industries such as agriculture, food, enzymes, fermentation, chemicals, waste treatment, energy and health care need trained people in BioChemical engineering. As both Chemical and Biochemical Engineering Programs are capital intensive that require specialized laboratory infrastructure and trained & experienced personnel only a few Institutes like IIT Delhi, IIT Kharagpur and NIT Jalandar etc. are offering these engineering programs.

RESEARCH FACILITIES & LABORATORIES

The Chemical Engineering Laboratories like Instrumentation and Process Control, CAD and Simulation, Heat Transfer, Mass Transfer, Fluid Mechanics, Reaction Engineering and Unit Operations are well equipped with imported/indigenous equipment/instruments. The USCT has state-of-the-art laboratories, set up at a cost of roughly Rs.2.0 crores. The students are trained on softwares like ASPEN PLUS, MATLAB, FLUENT, gPROM, SIGMA PLOT, Design Expert 8, PHAST RISK to enhance their capabilities. The school has many research facilities like Atomic Absorption Spectrophotometer, Double beam UV-VIS Spectrophotometer, Electronic Turbine/Corolis Mass flow meter for both liquid and gas flow calibration, Surface Area Analyzer, Refractometer, Surface Charge Analyzer, GC FID and GC TCD

THRUST AREAS OF RESEARCH

Petroleum and Perochemical, Biofuels and Bioprocessing, Catalysis, Process safety/Hazard, Separation Technology, Process Modeling, Simulation and Control, Environment.

ACADEMIC-INDUSTRY INTERACTION

Eminent professionals from industry are invited on regular basis, so that faculty and students can interact and enhance their knowledge. To name a few, senior executives from Indian Oil Corporation Limited [IOCL (R&D centre)], Stone and Webster Inc., Engineers India Limited (EIL), Institution of Engineers (India), have visited the School and delivered lectures in their respective areas of expertise. As part of B.Tech curriculum students go for summer training after completion of six semester of studies in leading organizations like EIL, Oil & Natural Gas Commission (ONGC), IOCL, National Fertilizers Limited (NFL), IFFCO and so on. The students also go on industrial visits to get a feel of the industry.

TRAINING & PLACEMENT CELL

The Training & Placement Cell constantly endeavors to forge a strong network with the industry to ensure placement of its students in leading organizations like Reliance Industries Limited, NFL, Nuclear Power Corporation Limited, BALCO, Hindustan Lever Limited, IOCL, ONGC, EIL, Bhaba Atomic Research Centre, NTPC, Glaxo Smithline, Defence Research & Development Organisation, Dabur Research Foundation, Hindustan Copper Limited, Prakash Chemicals Limited, CICO Chemicals Limited, KLGESS, Jubilant Organosys, Kokoku Intech Company, Limited (India) and Nerolac. The other major activity of the cell is to help students in getting placement for training.

CO-CURRICULAR ACTIVITIES

'REACT' – student's body of USCT organizes an annual technical festival 'Sanshlation', which provides them an opportunity to interact with students of other institutions. The students also participate regularly in inter and intra institute competitions and have brought many accolades to the School. REACT also organizes 'CHEMCHORD' a national level student seminar on various growing issues like safety, environment in coordination with IChE every year.

FACULTY

The highly qualified and experienced faculty has varied experience in process industry, research organizations, and academic institutions. At present, the faculty strength is 17 that include the Dean, three Professors, four Associate Professors and nine Assistant Professors.



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Prof. U. K. Mandal, Dean



Dr. U.K. Mandal is a Professor of Chemical Engineering & is Ph.D. from IIT Kharagpur & M.Tech, B.Tech from Calcutta University. He has 18 years of Teaching & Research experience. His areas of interest is Polymer Engineering, Nanotechnology & Separation Technology. He has published 25 research papers in International journals, presented/published 15 papers in National/International seminars. He has guided 3 Ph.D students.

Prof. S. S. Sambhi



Dr. S. S. Sambhi is Ph. D., M. Tech and B. Tech in Chemical Engineering from Indian Institute of Technology, Delhi with post doctoral experience of over twenty-five years in teaching/research. Seventeen publications in national/international journals besides several presentations/publications in conferences/workshops. Field of specialization is Heat and Mass transfer and special interest in the field of biomass combustion, pyrolysis and gasification. Several B. Tech, M. Tech and Ph. D. students are benefiting from his guidance. Member of Board of Studies – PTU (Punjab Technical University), Uttar Pradesh Technical University, Lucknow, Deenbandhu Chotu Ram University of Science and Technology, Murthal. Member of expert committee of Department of Polymer Science and Chemical Technology, DTU, Delhi. Joint secretary of IChE, Northern Regional Center and also coordinator for its scholarship committee.

Prof. M. A Siddiqui



Over 35 years of professional experience spanning several petroleum/petrochemical companies and research institutions. Prior to joining the Indraprastha University, he held the position of Executive Director (R&D), Bharat Petroleum Corporation Ltd. and in that capacity headed the corporate R&D Centre. He has published over a dozen papers/articles and presented a score of papers in national/international seminars/symposia. He has several patents (granted/applied for) to his credit.

Prof. Arinjay Kumar



Dr. Arinjay Kumar is Ph.D. and M.Tech. in Chemical Engg. from IIT Roorkee. He has 15 years of teaching & research experience. His areas of interest include Hazardous Waste Treatment, Bioprocess Engg. & Modeling & Simulation. He has published/ presented research papers in National/ International Journals, proceeding and conferences. He is life member of two professional bodies of Engineers namely; Institution of Engineers (India) and Indian Institute of Chemical Engineers. He has guided many Doctoral/ M.Tech. students.

ASSOCIATE PROFESSORS

Dr. Neeru Anand, Ph.D. (IIT Delhi)
 Dr. Rakesh Angira, Ph.D. (BITS, Pilani)
 Dr. Biswajit Sarkar, Ph.D. (IIT Kharagpur)
 Dr. Aradhana Srivastava, Ph.D. (IIT Delhi)

ASSISTANT PROFESSORS

Dr. S. K. Sharma, Ph.D. (Kanpur University)
 Dr. Tapan Sarkar Ph.D. (University of California, USA)
 Dr. Hasan Akhtar Zaidi, Ph.D. (IIT, Delhi)
 Ms. Sanigdha Acharya, M.Tech. (Punjab University, Chandigarh)
 Mr. Azad Singh, MS (IIT, Delhi).
 Mr. Dinesh Kumar, (Pursuing Ph.D. at IIT Delhi).
 Mr. Deepak Garg, M.Tech. (Pursuing Ph.D. at IIT Roorkee)
 Dr. Monisha Mrida Mandal, Ph.D. (IIT, Delhi)
 Mr. Binay Shah, M.Tech. (IIT Roorkee)

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4. UNIVERSITY SCHOOL OF ENVIRONMENT MANAGEMENT (USEM)

The University School of Environment Management was established in the year 1998 essentially to address future environmental problem and sustainable use of natural resources through quality education, training and research. The vision followed by the School is to actively pursue the goals of imparting quality education, training and facilitate research in the field of environment and natural resources management and also act as a think tank in policy matters related to environment management and sustainable development. The School is set up for the accomplishment of its nation to build a pool of trained and dedicated professionals who can contribute to the systematic development of policies, measures and programmes for environmental management and sustainable development at national and international levels. USEM has got Placement cell which actively facilitate summer training, major projects/dissertations and final job placement of students. Two Student's forum Biophilia and SEED are active for the various students' activities in the School.



OBJECTIVES OF THE SCHOOL

- To provide quality education and training in environment management.
- To pursue and facilitate contemporary research in various facets of bioresources and environment using modern analytical and other tools such as geospatial techniques.
- To establish working linkages with industry and undertake research on environment related issues.
- To foster environmental awareness and promote the principles and practices of sustainable development.

PROGRAMMES OFFERED

The School of Environment Management offers 02 years Masters Programmes in

- M.Sc. Environment Management** (25 seats intake)
- M.Sc. Biodiversity and Conservation** (20 seats intake)
- M.Sc. Natural Resource Management** (25 seats intake)

These programmes are aimed to develop professionals, equipped with the fundamental scientific knowledge so as to become responsive to the current and emerging environmental issues. The students acquire in depth and comprehensive understanding of a wide variety of environmental analysis tools, methods and systems so that they can play a leading role in the development and application of environmental policies and conservation programmes for environmental management and sustainable development. Present intake for the courses is: 25 students for M. Sc. Environment Management (EM) from science/engineering background, 20 for M.Sc. Biodiversity and Conservation (B&C) from any discipline of Biological/ Life Sciences and 25 students for M. Sc. Natural Resource Management (NRM) from science background students. Every year students of all the M.Sc. programmes were taken to field visits to orient them actual issues and for practical understanding on subject areas.

RESEARCH ACTIVITIES

During the last couple of years the School has made concerted efforts in promoting research activities in the contemporary areas of research. Presently, USEM is actively involved in carrying out research in the following thrust areas:

- Conservation Biology, Biodiversity
- Glaciology
- Urban landscape- green space management
- Environmental Biotechnology
- Water and wastewater treatment
- Energy and Environment Interactions, Climate Change
- Environmental modeling
- Air, Water and land pollution, EIA
- Biosystematics of plants and animals
- Disaster management
- Forestry, ecotourism, Livelihoods

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- Wetland ecosystem
- Wildlife and habitat ecology

Few senior level '**post- doctoral research scholars**' are also working in various research lab. with Sponsored research project of DST/UGC/CSIR

PH.D PROGRAMME AT THE SCHOOL

The school strongly focus on inter-disciplinary research in the environmental field on all the above diversified area to address current issue pertains to nature and environment. The Ph.D Scholars of the School (51nos.)are working on different research topics, they are admitted through common written test and interview as per the university rules. Research scholars share their results through monthly in-house seminars, national and international conference and by journals publications. Most of the regular scholars have their scholarship from UGC/CSIR/GGS IPU/DST- Inspire fellowship programme. On an average annually about 30-40 research papers are published from the School, some are having high impact factors

INFRASTRUCTURAL FACILITIES

USEM has state of the art laboratories for carrying out teaching and research. USEM boasts of having an advanced instrumentation system lab, water quality analysis laboratory, remote sensing / GIS laboratory, environment microbial technology laboratory, Energy and Climate Change, air pollution monitoring laboratory, biosystematics, natural resource management and conservation biology laboratory.

ADVANCED INSTRUMENTATION SYSTEM LABORATORY

Lab houses the latest and sophisticated instruments namely, Gas Liquid chromatograph (GLC), High Performance Liquid Chromatograph (HPLC), UV-Visible Spectrophotometer, Atomic Absorption Spectrophotometer (AAS), CHNSO Analyzer, Microbial Identification System, Mass Detection System, Automatic Titrator, Flame Photometer etc.

Water Quality Analysis Laboratory

Physico-chemical parameters of water are analyzed in this laboratory. Special emphasis is given on learning treatment techniques for public water supply and domestic and industrial effluents. Water quality analysis laboratory is the hub of teaching and research in the school.

Geomatics Lab

School has among the best equipped facilities for carrying out research in the area of bioresources and environment using geospatial techniques. Geomatics lab has remote sensing and GIS software's like ERDAS 2010, ArcGIS, Arc View, GeoMedia, ENVI, SARSCPAE etc. which not only cater to the needs of M.Sc. students but also research needs of the Ph. D. scholars

Environment Microbial Technology Laboratory

Environmental Microbial Technology Lab with facilities like Laminar Air Flow, BOD Incubator, incubator shakers, centrifuge, autoclave, microscopes, colony counter etc. is providing knowledge of microbial world and their use in bioremediation.

NRM and Conservation Biology Laboratory

The laboratory deals with works in the themes of Biodiversity, Forest





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resources, Wildlife, Grassland resources, Certification, Ecotourism and other components of NRM. Various equipments like Digital Soil Moisture Meter, Digital pH Meter, Digital Platform Scale, microscopes, field Binoculars, digital Cameras, Scientific compass, GPS etc.

ENERGY & AIR POLLUTION MONITORING LABORATORY

Energy and Air Pollution monitoring laboratory has latest and sophisticated instruments like High Volume sampler, Bomb Calorie Meter, Sound Level Meter etc. Experiments in this lab are performed on sampling, analysis, measurement and monitoring of air and noise pollution. The lab has recently acquired sensor based instrument for analysis of green house gases and aerosols.

BIOSYSTEMATICS LAB

Biosystematics lab has all the latest instruments like gel-doc, PCR, fluorescence microscope and software required in the fields of systematics, phylogenetics and web designing.

BIODIVERSITY AND CONSERVATION LAB

Biodiversity and Conservation lab has all the latest instruments like gel-doc, PCR, fluorescence microscope and software required in the fields of systematics, phylogenetics and web designing.

In addition to the teaching labs, there are labs dedicated to the research in the specified fields.

STUDENT'S PROFILE

Our students have done exceptionally well and are placed at reputed educational and professional institutes and organisations. Most of the students are pursuing research in reputed national and international organizations like IISC Bangalore, Helmholtz Zentrum fuer Umweltforschung UFZ-Germany, ATREE, IIT-Delhi, TERI, JNU, Nottingham University, UK etc. The students of our school are usually placed at FICCI, Department of Environment, Govt. of Delhi, Hindustan Unilever Ltd., TCS, RMSI, NOIDA, Emergent Ventures India, Ramkay Environment Engineers Ltd; JK Cement Ltd; Google Earth, Vayam Technologies, Jindal Steel, ERM Consultants, Centre for Science and Environment, CII- ITC; Central Road Research Institute, Energy Plantation Project India Ltd., Comibatore, JM Environment Pvt. Ltd., Union Bank, Syndicate Bank, Wetlands International-South Asia, Delhi Pollution Control Committee, TERI, ATREE, WII, SACON, WWF. Many of our students have been qualifying UGC/CSIR-NET and SLET competitive examinations for the eligibility of scholarship and lectureship.

FACULTY

USEM possess excellent group of experience faculty members, they are all having PhD degree from reputed institutions. Faculty members have long years of experience of running International and national research projects. Most of them are involved with several areas of expertise as evidenced from their publication, awards, fellowships and sponsored research grants. All faculty members are continually improving their teaching methods, and explore new areas of research. Faculty members are having many prestigious committee memberships and having involved in collaborative projects and association with foreign universities.

Prof. Prodyut Bhattacharya, Dean



Dr. Prodyut Bhattacharya did his Postgraduate in Botany with specialization in Forest Ecology and Ph.D. awarded in Botany, worked in Ecology and utility of Ethno-medicinal Plants from Dr. H.S. Gour University (Central University), Sagar, M.P.

He has 24 years of experience in research and teaching for post graduate. A fellow of Beahrs Environmental Leadership Program (ELP) of the University of California, Berkley, USA and Visiting Scientist fellowship (JSPS) under University of Tsukuba, Japan. Received advance training on community forestry and microfinance from RECOFTC, Kassetart University, Bangkok; University of Naropa, Colorado, USA respectively. He has worked as Associate Professor and Assistant Professor at the

Indian Institute of Forest Management (IIFM), Bhopal since 1994 (before joining to GGSIPU), developed and set up the International Centre for Community Forestry (ICCF) at IIFM, Bhopal. Published more than 125 research papers, in international and national journals including articles, technical reports, conference papers and four books as co-author. He has completed 10 international sponsored research projects & 14 other nationally sponsored research projects from multilateral/bilateral donors Government and Corporate bodies. Guided several Ph.D. scholars and guided 26 M.Phil. theses. Completed 17 consultancy assignments



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for government, donor organization and for industries, and widely travelled to more than 20 countries with different academic assignments. He is a member of different committees of Government of India, International projects, editorial board of journals and member, board of studies of different universities.

His research interest pertain to the broad NRM issues and Livelihood linkages; in subject area of Biodiversity Conservation, Forest Ecology, Sustainable NTFP Management, effect of climate change, Urban-forestry, Forest Governance, Certification and Sustainable Forest Management.

Prof. Amarjeet Kaur



Dr. (Mrs.) Amarjeet Kaur did M.Sc. from Kurukshetra University and Ph.D. from Haryana Agriculture University, Hisar. She has more than 22 years of experience in research and training. Her areas of specialization are applications of Remote Sensing Technology in Environmental Management, Disaster Management, and Environmental Biotechnology. She has worked as Principal/Co-Principal Investigator of various international/national projects related to Environment Management. She has visited USA, UK and Japan in connection with study exchange programmes and conferences. She was also involved in Environmental Management Plan of Delhi using Remote Sensing Technology and GIS.

Prof. J. K. Garg



Dr. J.K. Garg, M. Phil. (Environmental Science) from Jawaharlal Nehru University, New Delhi and Ph.D. in the area of Wetland Conservation and Management from Gujarat University, Ahmedabad, has more than 35 years of experience. Dr. Garg has pioneered the research pertaining to use of remote sensing and GIS for environmental applications in the country while working at Space Applications Centre, ISRO, Ahmedabad. It may be mentioned that 1st scientific inventory of the wetlands in the country, sponsored by the Ministry of Environment and Forests, Government of India, was carried out under his guidance. He has completed successfully 12 research projects in various spheres of bio resources and environment using geospatial techniques. His main endeavour has been to develop techniques for environmental appraisal of developmental activities, wetland conservation and management, biodiversity conservation, wildlife habitat suitability analysis, landslide hazard assessment etc. besides natural resources census using RS and GIS techniques. Prof. Garg has more than 140 publications which include research papers in international/national journals, book articles, and reports etc.

His current areas of research include emission and modelling of GHGs, climate change and ecosystem response, wetland ecology, watershed management, environmental hazards and developmental planning, biodiversity conservation, EIA of major developmental activities like mining, coal pithead thermal power generation, river valley projects, ecosystem analysis and management, and natural hazards assessment etc. using geospatial techniques and other contemporary analytical tools.

Prof. Anubha Kaushik



Dr. Anubha Kaushik obtained her Masters and Ph.D. degree in Botany from K.U. Kurukshetra. She did pioneering work on phytosociology, biomass, nutrient dynamics and carbon allocation patterns in grassland ecosystems of sodic soils, in collaboration with Central Soil Salinity Research Institute, Karnal, Haryana for her doctoral thesis. She has 08 Gold Medals to her credit in Academics and was awarded Dr. B.R. Ambedkar National Fellowship Award and Gold Medal, Nehru Memorial Foundation Prize.. She has more than 29 years of P.G. teaching experience at different universities (G.J. Univ. of Science & Technology, Hisar, K.U. Kurukshetra, M.D.University, Rohtak) since 1984, and is Professor for the last 11 years. She has been Dean and founder Chairperson of Env. Sc. & Engg. Deptt. at GJUS&T and KUK. She has been Visiting Fellow in the Department of Biosystems Engineering, University of Manitoba, Winnipeg,

Canada and Academic Guest to National Oceanic and Atmospheric Administration (NOAA), Boulder, Colorado, USA. She has published more than 100 research papers (International 73 ; National 39), 07 Technical Reports, about 25 scientific articles and book chapters, edited 05 Conference Proceedings and co-authored 05 Books., besides more than 40 abstracts in conference proceedings. She is/ has been Member Editorial Boards of 06 journals and is in reviewer's panel of about 20 international journals. She was awarded DST Young Scientist Research Project and 07 Major projects funded by the UGC, CSIR, DOE, Haryana and has

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undertaken Consultancy work for the State Govt., Haryana and several industries. She has produced 15 Ph.Ds, supervised more than 80 P.G. research Projects and 03 M.Phils. Her current research areas include water and soil pollution, bioremediation of heavy metals and dyes using cyanobacteria, biohydrogen production using microbial systems, Microbial fuel cell Technology, Constructed Wetland Technology and EIA studies.

Prof. N.C.Gupta



Dr. N.C. Gupta joined the GGS IP University in July 1999. He is Post-graduate in Physics. He obtained his M. Phil. and Ph. D in Energy and Environment Systems from Jawaharlal Nehru University (JNU), New Delhi. He is the founder member of University School of Environment Management (USEM) and served as Associate Professor, Reader with the School prior to his current position. He was post-doctoral fellow (Project Scientist) with The Energy and Biomass Conversion Laboratory of the Department of Chemical Engineering, IIT-Delhi and researcher with the Radio and Atmospheric Science Division of National Physical Laboratory (NPL), Delhi. He has more than 22 years of research experience out of which 15 years of teaching experience to M. Sc.

Environment Management, B. Tech., M. Tech. (Chemical Technology) and MBA (Disaster Management). He was instrumental in setting up of major laboratories in the University School of Environment Management. He has instructed wide variety of courses which includes Energy, Environment and Technology, EIA, Air pollution, Climate Change and disaster management and risk analysis. He has supervised several Doctoral Thesis and more than 70 dissertations including M. Sc., B. Tech., M. Tech. in the area of energy, environmental pollution, EIA, climate change, environment management and disaster management. He has carried out several consultancy assignments for NTPC, IPGCL Power plants, Larsen & Toubro, NMBA and major project of UGC. He is training and placement in-charge of the School since 2002. He has delivered several talks in thermal power industry on environment protection and pollution control. He is editorial board member of international peer reviewed journals and is reviewer of several international journals. He has published more than 50 research papers in international and national journals. Prof. Gupta is member of several academic associations/societies.

OTHER FACULTY MEMBERS OF THE SCHOOL :

Associate Professors

- **Dr. Rita Singh, Associate Professor:** D.Phil. (Allahabad University), Specialization: Biosystematics and Conservation Biology
- **Dr. Varun Joshi, Associate Professor:** Ph.D. (HNB Garhwal University), Specialisation: Environmental geology, Natural hazards and Sustainable development, Glaciology, Disaster management, EIA
- **Dr. Kiranmay Sarma, Associate Professor:** Ph.D. (North-Eastern Hill University, Shillong), Specialization: Remote Sensing and GIS, Geography, Wildlife.

Assistant Professors

- **Dr. Anshu Gupta, Assistant Professor:** Ph.D. (IIT Delhi), Specialization: Environmental Biotechnology, Enzyme purification and Characterization.
- **Dr. Deeksha Katyal, Assistant Professor:** M.Sc., Ph.D. (Delhi College of Engineering), Specialization: Water quality assessment, Ground water pollution modelling, and analytical instrumentation.
- **Dr. Pamposh, Assistant Professor:** Ph.D. (Delhi University), Specialisation: Wetland Ecology.
- **Dr. Sanjay K. Das, Assistant Professor:** Ph.D. (J.N.V. University, Jodhpur), Specialisation: Biosystematics, Herpetology and Wildlife Ecology, Avi-fauna.
- **Dr. Sumit Dookia, Assistant Professor:** Ph.D. (J.N.V. University, Jodhpur), Specialisation: Biosystematics of Mammals Wildlife Ecology and Avi-fauna
- **Dr. Sonwane Nandkishor Sheshrao:** Ph.D. (Dr. B.A.M. University), Specification: Biodiversity, Air Pollution, Natural Resources.

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5. UNIVERSITY SCHOOL OF HUMANITIES AND SOCIAL SCIENCES (USHSS)

The School, an integral part of the overall vision of the University, aims at evolving innovative pedagogy and participative learning in order to provide an enabling platform for inclusive growth. Through its academic inputs it empowers the learners-scholars-professionals to systematically understand and reflect on social, political and cultural structures and processes, and hence, endeavors to expand their professional vision. The school is committed to provide an interdisciplinary and integrative pedagogical interface to learners so as to nurture them into complete and competent human beings.

VISION

To inculcate integrative inquiry among the students through critical research and creative involvement, by uniting faculty and students, in a unique knowledge sharing domain which concentrates to understand the complexities of the immediate environment while simultaneously enabling minds to meet future challenges.

MISSION

The School aims to enhance students' critical understanding of the society and culture in which they live. They are exposed to critical ideas with a view to instilling in them the acumen to understand their social surroundings and enable them to obtain skills that can lead to their successful and enriching career.

BEST PRACTICES AT THE SCHOOL

- Collective Teaching
- Continuous Evaluation
- Author-Student Interaction
- Off-campus Workshops
- Theatre Performances
- Rasrang- the School Repertory
- Curriculum Design Workshops
- M.A. Dissertation
- Teacher Mentors
- Fortnightly Seminars
- Painting Exhibitions

MA (ECS) SEMINAR

The School organizes fortnightly seminar-cum-extension lectures (on every alternate Wednesday) for the students of MA (ECS) programme. Each student of MA (ECS) programme is assigned a teacher-mentor who guides and supervises their research papers. Students' performance in the seminar is a part of continuous evaluation. The texts selected for the seminar cater to wide range of issues. In order to give wider exposure to the students, it is ensured that these texts should not be a part of the prescribed syllabus for MA programme. The Seminar is a niche activity by the School at master's level which gives the students a platform to engage themselves with critical ideas and sharpen their analytical abilities. The School invites eminent scholars to formally evaluate students' performance.

In addition to this, the School has been organizing a series of national seminars for its students such as

- The Poet, the Critic and the World in 2010
- The Painter, the Critic and the World in 2012
- Muddat Hui Hai Yaar Ko Mehman Kiye Hue- a
- 2-day Seminar on Faiz Ahmed Faiz in 2012
- A seminar on Anne Ghode Da Daan in 2013

The seminars organized by the School are meant to inculcate in students the creative interest and a healthy sense of criticism. Also, it gives the students an opportunity to interact with renowned artists, distinguished litterateurs and academicians of repute.

INVITED WRITERS AND ARTISTS:

Sheen Kaaf Nizam (Sahitya Akademy Award Winner Urdu Poet)
 Sh. Kashinath Singh (Sahitya Akademy Winner Writer)
 Sh. Kedarnath (Sahitya Akademy Winner Poet)
 Sh. Manglesh Dabral (Sahitya Akademy Winner Poet)
 Sh. Keki Daruwala (Sahitya Akademy Winner Poet)



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- K. Sachidanandan (Sahitya Akademy Winner Poet and Critic)
- S. Surjit Pattar (Sahitya Akademy Winner Poet)
- Sh. Vishnu Khare (A Renowned Poet)
- Sh. Abbas Batliwala (An International Painter)
- Sh. Shail Choyal (An International Painter)
- Sh Hemant Dwivedi (A Renowned Painter & Prof. Dept. of Fine-Arts, MLS Univ., Udaipur)
- Sh Ranjit Kapoor (An Eminent Theatre Director)
- Sh. Asghar Wajahat (A Renowned Novelist, Playwright, Documentary Filmmaker)
- Gurvinder Singh (A National Award Winning Filmmaker)

INVITED EMINENT SCHOLARS

- Sh. Namvar Singh (Chancellor, Hindi Vishwa Vidyalaya, Wardha a distinguished scholar and critic of Hindi literature)
- Prof. Amritjit Singh (Ohio University, USA)
- Prof. Poonam Arora (Hamline University, USA)
- Prof. Harish Trivedi (Retd. Professor, University of Delhi)
- Prof. Rana Nayar (Panjab University, Chandigarh)
- Prof. Manju Jaidka (Panjab University, Chandigarh)
- Prof. Akshay Kumar (Panjab University, Chandigarh)
- Prof. G.J.V. Prasad (JNU, New Delhi)

INITIATIVES AND ACADEMIC CURRICULAR ENRICHMENT ACTIVITIES BY THE SCHOOL

- Organized an off-campus Painting Workshop at Palampur, Himachal Pradesh in 2013
- Organized an off-campus Theatre Workshop at Nagda near Udaipur in 2013
- Organized a Workshop on Literary Appreciation in 2012
- Organized an off-campus Theatre Workshop at Udaipur in 2012
- Organized an off-campus Painting Workshop at Palampur, Himachal Pradesh in 2011
- Organized a 15-day Theatre Workshop in collaboration with NSD for the students of the University in 2009
- Organized an Art Appreciation Workshop-cum-Educational Tour at Akola, Udaipur in 2009
- Organized various soft skill development workshops.



RASRANG

RASRANG, the School Repertory, is a creative-cum-critical platform for the students to experience and learn the finer nuances of fine arts and performing arts. It is an integral part of MA (ECS) programme as it corresponds to the practical needs of various prescribed courses. It integrates theory with practice by involving the students in creative activities such as adaptation and performance of plays and painting workshops. It supplements class-room teaching by giving them first-hand exposure to other forms of art and mediums of communication. It entails pedagogical innovation wherein the students are encouraged to move beyond the bounds of the 'course content' and extend their creativity in allied areas. As a result, learning becomes an aesthetically and intellectually stimulating exercise and students mature into responsive and responsible individuals with capabilities to make vital connection with the self and the society.



SCHOOL JOURNAL:

Indraprasth- An International Journal of Culture and Communication Studies.

In order to promote generation and dissemination of knowledge, the USHSS has launched an inter-disciplinary refereed research journal, Indraprasth- An International Journal of Culture and Communication Studies. The journal publishes scholarly articles on Literature in English, Translation Studies, Film Studies, Cultural Studies and Communication Studies. The endeavour in launching this journal is to fulfil the need for more

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serious and scholarly journals in India, which can be a site for critical discussion and debate.

SNIPPETS...



PROGRAMMES OFFERED BY THE SCHOOL

1. USHSS offers Post Graduate programme in **M.A. English and Communication Studies**. It is a two-year modular programme with the provision to exit after one year with PG Diploma in Communication Studies.
2. It offers doctoral programme (**Ph.D.**) in Literary and Cultural Studies in the following areas:
 - Translation Studies
 - Indian Literature
 - American Literature
 - British Literature
 - European Literature
 - Film Studies
3. It also offers need-based courses in communication-skills and Social Sciences at graduate and post-graduate levels to various University Schools.

M.A. (ENGLISH AND COMMUNICATION STUDIES)

The Post-graduate programme in English and Communication Studies adds a new dimension to the University's culture. The aim is to create a tradition of excellence in language/communication skill competence and literary sensibility geared towards an all round development of personality through the cultivation and application of various facets of English and Communication Studies. The curriculum is designed to assist students from all streams in developing and refining their individual and professional skills with special emphasis on professional communication commensurate with emerging professional needs.

The Programme is especially relevant for students seeking career in teaching & research, publication industry and media.

SCOPE OF THE PROGRAMME

The programme is inter-disciplinary in nature and offers a distinctive blend of academics and industry-relevant practices. The course prepares the students for a wide range of communication and language related career opportunities.

In addition to the core subjects, this course also offers a wide range of optional subjects including regional literatures catering to the varied needs and interests of the scholars. Some of our path-breaking elective papers have been designed according to the latest trends in literary and cultural studies such as

Literature of Protest	Cinema and Communication
Gender Narratives	Philosophy Psychology and Literature
Sufi and Bhakti Poetry	Teacher Specific Courses (Partition Literature, Shakespearian



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Translation Studies
Non-Fictional Narratives

Drama, Romantic Poetry)

Objectives: MA in English and Communication Studies has been designed with an aim to:

- Enable the students to develop comprehensive communication skills to meet the challenges of contemporary times
- Provide them with fundamental written communication skills required to become successful journalists and other media professionals
- Help them achieve an understanding of new communication technologies and their impact on the fast-changing global scenario
- Help them appreciate the value of an international and interdisciplinary approach to the study of language, literature and communication.
- Offer them with an opportunity to develop research skills and engage in applied analysis of different aspects of language, literature and communication skills
- Inculcate literary sensibility and critical acumen

FACULTY

USHSS has a dedicated and research-oriented faculty with an interdisciplinary sensibility, individual integrity and a sense of social responsibility. The emphasis is on empowering the learners to apply a humanistic perspective to the challenges faced by them in society.

Dr. Anup S Beniwal, Dean



Prof. Beniwal is a scholar of Indian English Fiction on Partition, Indian Writing in English and Translation and Cultural Studies. Apart from authoring four books, he has also contributed research papers, review articles and translations to prestigious national and international refereed journals, newspapers and magazines.

Specialization: Contemporary Indian Writing in English, Indian English Fiction on Partition
Field of Interest: Indian English Literature; Indian Fiction in English Translation; Contemporary Hindi Fiction; Cultural and Communication Studies

OTHER FACULTY MEMBERS OF THE SCHOOL :

Name	Designation
• Dr. Manpreet Kang	Associate Professor
• Dr. Ashutosh Mohan	Associate Professor
• Dr. Vivek Sachdeva	Associate Professor
• Dr. Shuchi Sharma	Assistant Professor
• Dr. Chetna Tiwari	Assistant Professor
• Dr. Naresh K. Vats	Assistant Professor
• Dr. Rajiv Ranjan Dwivedi	Assistant Professor
• Dr. Ritesh Kumar Mishra	Assistant Professor

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6. UNIVERSITY SCHOOL OF LAW AND LEGAL STUDIES (USLLS)

USLLS is a distinct institution of legal education in an unparalleled setting of advanced research and multidisciplinary environment. Imparting of legal education along with studies in information technology, biotechnology, chemical technology, basic and applied sciences, business management, environmental management, humanities, education and media make it a wonderful experience with a confidence of sure short success. In any case it builds sound legal minds able to face any challenge in modern global context. This is the only one in such an ambience in the country. It offers in the National Capital Territory of Delhi the courses: (a) Five Year BA.LLB(H), (b) Five Year BB.A.LLB(H), (c) LLM in Intellectual Property Rights, (d) LLM in Corporate Law, (e) LLM in Human Rights, (f) LLM (Weekend) in Cyber Law and Cyber Crime, and (g) LLM (Weekend) in Intellectual and Industrial Property Law. It also offers Ph.D. in various streams of law and allied disciplines with inclusionary approach as demanded by contemporary national and international needs. The law school, with a well experienced and sincere regular faculty, conducts all the courses with professionalism and due value orientation. The Course structure is contemporary and practice oriented with special focus on legal ethics. The school has been attracting students from all over India and even overseas. The students at the school regularly participate in lok adalats, seminars, conferences, moot court Competitions, mock trials, quiz and debate competitions, client counseling demonstrations and other contests at the local, national and international levels. So far many of its alumni have emerged as leaders in the profession and the community. The USLLS is headed by Prof. M.Afzal Wani, a former member of the Law Commission of India and a well known TOT expert, researcher and a comparative law scholar.



MISSION

- Adoption of multidisciplinary approach towards law and legal studies so as to develop greater synergy between classroom lectures, conventional professional and alternative practices in law.
- Encourage continuous engagement with and adoption of innovative approaches towards law, legal education, training and legal processes through capacity building of the faculty and facilitating access to advanced courses.
- Constant involvement with processes and practice of law in the professional, social and economic arenas of life by encouraging interaction between the institution and those involved in these processes.
- Development of technical, advocacy, communication and research skills not only through taught courses but also through practical training and engagement with the industry, community and the state.
- Expansion of facilities for advanced research in law, introduction of new and vibrant courses and for augmenting the capacity to undertake consultancies and projects with state, national and international agencies, industry etc.

PROGRAMMES CONDUCTED AND INTAKE

S. No.	Programme UG/PG/M Phil/ Ph.D/ Dip/Cert.	Duration	Sanctioned Intake
1.	B.A.LLB(H)	5 Yrs.	60
2.	B.B.A.LLB(H)	5 Yrs.	60
3.	LL.M.	2 Yrs.	30
4.	LLM (Weekend) in Cyber Law and Cyber Crime	2 Yrs.	20
5.	LLM (Weekend) in Intellectual and Industrial Property Law	2 Yrs.	20
6.	Ph.D.	--	3

SPECIAL PROGRAMMES

USLLS conducts coaching for Civil and Judicial Services of students belonging to SC/ST/OBC/Minorities. No fee is charged for that. The LL.B./LL.M. students and those who have qualified law degree are eligible for enrolment.

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SOME PROMINENT PREVIOUS ACADEMIC ACTIVITIES CONDUCTED

1. Law lecture series by most prominent law men of the country, including:
 - a) Hon'ble Mr. Justice R.C.Lahoti, former Chief Justice of India
 - b) Mr. Soli J. Sorabji, former Attorney General for India
 - c) Mr. Ram Jetmalani, former Union Law Minister, Renowned Jurist and Senior Advocate, Supreme Court of India



2. Training programmes for officers of Delhi Police in finer aspects of law.
3. South Asia Legal Education Conference.
4. Indraprastha National Moot Court Competitions
5. An Orientation Programme for 2013 batch was organized by USLLS in August 2013. The Chief Guest in orientation program Mr. Justice SN Dhingra, member Competition Commission of India motivated the students. The Guests of Honour Prof. MP Singh, Chancellor Central University, Haryana and Shri SS Rathi, Member DLSA and Dr. Arun Mohan, Senior Advocate gave tips on legal education and the career ahead. The Dean and other faculty members also addressed and apprised the students about the rules and regulations of the School. The Vice Chancellor, GGSIP University presided.

PARTICIPATION IN MOOT COURT COMPETITIONS

Students participated in following International Moot Court Competitions:

- 1) Willem C. Vis (East) Arbitration Moot at Hong Kong
- 2) Willem C. Vis Arbitration Moot at Vienna
- 3) Stetson Moot Court Competition
- 4) Louis M. Brown Client Counselling Competition
- 5) Henry Dunant Competition
- 6) Philip C. Jessup
- 7) Won accolades in International and National Moot Court Competitions
- 8) Have brought laurels to the School by getting highest approval in Debating circuit
- 9) Acclaimed for their writing skills in essay and paper writing competition
- 10) Legal Research Paper Writing



INFRASTRUCTURAL FACILITY

- 1) Seminar Hall
- 2) Placement Cell
- 3) Legal aid Cell
- 4) Classroom with LCD projectors and interactive board
- 5) Video conferencing facility
- 6) Faculty committee room
- 7) Computer Lab with access to on-line data bases
- 8) Well equipped and state-of-the-art Moot Court Room

PLACEMENT CELL

USLLS has a proactive and professional Placement Cell looked after by a team of experienced teachers, mainly Dr. Ravinder Kumar, Dr. Queeny Pradhan Singh and Dr. Aprajita Kashyap and some student coordinators. The Cell is entrusted with the task of organizing seminars and workshops on training and placement, providing tips on preparing professional curriculum vitae, enhancing communication skills, all-round personality development, mock interviews etc. The Placement Cell

PART - A

plays a pivotal role in organizing court/commission visits, summer training and placement activities. A placement brochure is released pertaining to the specifications of the students of out going batch. In our endeavour the placement cell has been getting support from eminent legal luminaries. An impressive 90% placement of the 2008 –13 Batch was attained.



- i. Some supportive Law firms are: Clifford Chance, Trans India Law Association, Prakash Legal Advisor, Singh & Associate, Preeti Suri Associates, Renfry & Sagar Associates, Vikram Kapoor & Company, Pangea 3, Kings & Alliance, Khaitan & Co., DSK Legal, DGS & Associates, “M” Legal Associates, Lex Alliance and ELDF Associates.
- ii. 43 students interned in Supreme Court, High Court, District Courts, DLSA and various NGOs.

LEGAL AID AND LITERACY PROGRAMMES

The USLLS is frequently organizing legal literacy camps at various places for different target groups. Students also teach voluntarily the needy students belonging to the people of lower income groups. Students remain associated with Delhi Legal Services Authority for voluntary work and experience.

FACULTY

USLLS has a dedicated faculty of 21 regular teachers with outstanding academic achievements. Eminent professors of law, lawyers and judges are in the panel of its visiting faculty.

Prof. M. Afzal Wani, Dean



Prof. (Dr.) M. Afzal Wani has more than 28 years of teaching and research experience. He is a former member of the Law Commission of India having authored and edited more than 10 books. He has published more than 100 research papers/articles/book reviews/research reports and noted on various subjects like Women and Law, Human Rights, Constitutional Law, Disaster Management, Criminal Justice System and the Islamic and Comparative Jurisprudence. He is the founder editor of the Indraprastha Technology Law Journal, a specialized journal on the subject published by USLLS. He is a life member of the Indian Law Institute (ILI) and the Indian Institute of Public Administration, New Delhi besides being associated with a large number of

universities and other institutions in different capacities. He has served as a member of the Governing Council of the ILI and Executive member of the Delhi Legal Services Authority and the National Law University, Delhi. He has successfully participated in many activities of the National Commission for women with fair sensitivities and organized many programmes with the assistance of National Human Rights Commission including PG Diploma in Human Rights at the ILI. He is known for having organized training programmes and refresher courses for law teachers from all over the country and abroad and many trend setting national and international conferences/seminars etc. He has participated in academic programmes and delivered extension lectures in almost all the regions of the country and some other countries.

Prof. Suman Gupta



Dr. Suman Gupta is a Professor at the University School of Law and Legal Studies. She did her LLB, LLM and Ph.D. from the University of Delhi. She has teaching and research experience of more than 32 years. Her specialization is in the area of Corporate Law and Intellectual Property Law. She has supervised more than 20 LLM dissertations and 06 Ph.D.'s. Among her numerous articles and books, her book 'Shareholder Democracy – Facts or Fiction' has been highly acclaimed by business and legal fraternity. She is the first teacher in India to be provided World Intellectual Property Organization (WIPO) fellowship in Tokyo (Japan). She has attended training course on IPR for developing countries of Asia and Pacific in Colombo (Sri Lanka). She has also delivered lectures

in Faculty of Law, Khyshu University, Japan and Kathmandu School of Law, Nepal. She prepared a 'Report on Corporate Governance in India' a research project of the Institute of Developing Economics (IDE) Japan, and Japan External Trade Organization (JETRO). She is a member of ATRIP, a body of World Intellectual Property Organization Geneva (Switzerland).